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Honoring the 300th Anniversary
of the Christian Brothers
1680—1980

La Salle COLLEGE

BULLETIN 1980-81



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LA SALLE COLLEGE

BULLETIN

1980-1981

CATALOG ISSUE

A LIBERAL ARTS COLLEGE

FOR MEN AND WOMEN

CONDUCTED BY

BROTHERS OF THE CHRISTIAN SCHOOLS

PHILADELPHIA, PENNSYLVANIA 19141

215-951-1000

La Salle College does not discriminate against any applicant because of race, color, creed, sex, age, physical handicap, or national origin. Admission is based solely upon an applicant's qualifications and ability to meet the established admission requirements. This commitment extends to participation in all educational programs and activities of the college.

ACCREDITATION AND MEMBERSHIP

La Salle College was chartered in 1863 by the Legislature of the Commonwealth of Pennsylvania and is empowered by that authority to grant academic degrees. It is accredited with the Middle States Association of Colleges and Secondary Schools, the Pennsylvania Department of Education, the Regents of the University of the State of New York, the American Chemical Society, and the Pennsylvania State Board of Law Examiners.

The College is a member of the American Council on Education, the Association of American Colleges, the College Entrance Examination Board, the American Association of Collegiate Registrars and Admissions Officers, the Association of College Admissions Counselors, the National Catholic Educational Association, the College and University Council of Pennsylvania, the Association of Liberal Arts Colleges of Pennsylvania for the Advancement of Teaching, the Pennsylvania Catholic Education Association, the American Library Association, the National Commission on Accrediting, the American Catholic Historical Society, the Educational Conference of the Brothers of the Christian Schools, and the National Association for Foreign Student Affairs.

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a profile



the history and traditions

La Salle College was chartered by the legislature of the Commonwealth of Pennsylvania in 1863. The founders of the new educational institution consisted of Christian Brothers, priests of the Archdiocese of Philadelphia, and several Catholic laymen. The College's beginnings were modest indeed: at first it was an adjunct to St. Michael's parish school. As the small college began to establish its educational reputation, its need for space dictated several moves. From St. Michael's the College moved to a center city site at Juniper and Filbert Sts. and from there to the old Bouvier mansion at 1240 North Broad St.

Forty-three years later, in 1929, the still-expanding college purchased part of the historic Belfield Farm, once the home of American painter Charles Willson Peale, and began to build the collegiate Gothic towers of College Hall. La Salle was hardly settled in its new home before the Great Depression threatened its very survival. The lean years of the 1930's became even more difficult when World War II depleted the student population to a mere 90 students.

With the end of the war, however, the influx of veterans taking advantage of the G.I. Bill necessitated a new cycle of growth and expansion that has continued until the present day.

Two decisions stand out as noteworthy in this period of change. The first is the inauguration of the Evening Division in 1946 and that division's subsequent development as a leader in the state in providing evening degree programs for adults. The second is the decision to admit women students, thus ending a century-old tradition and beginning a new chapter in La Salle's history. Women entered evening classes in 1967 and day classes in 1970. Of the entering class of 1979, 44% were women.

The tremendous expansion of La Salle to its present 3,000 day students is apparent in the building boom that has taken place on campus. Additions over the last 25 years have included the David Lawrence Library and the newly-completed Library Annex in Wister Hall; a College Union; nine residence halls; the Holroyd Science Center; a biological field station; Olney Hall, a new classroom and faculty office building; and Hayman Hall, the athletic facilities building, completed in 1972.

This remarkable physical growth has been complemented by an equally remarkable academic development. Today's curriculum is more varied, more



flexible, more responsive to the needs and interests of students. Among the many special programs are those for honors students, for study abroad, for cooperative education, and for disadvantaged students.

TRADITIONS AND OBJECTIVES

Though often mistakenly connected with the French explorer, the name of the College commemorates the 17th-century French educator and founder of the Christian Brothers, John Baptist de La Salle. The traditions of this saintly, innovative educator have been continued by the Brothers, a non-clerical order of religious who have been teaching in the United States since 1845. Under the auspices of the Brothers, La Salle College strives to continue such La Sallian traditions as devotion to excellence in teaching, concern for ultimate values and for the individual values of its students.

In the light of these traditions, La Salle offers students an education founded on the idea that man's intellectual and spiritual development go hand in hand, complementing and fulfilling one another. The basic purpose of the College is a free search for truth and the development of materials and skills necessary for the search; its religious concern is an extension of that purpose. In a company of mature teachers and scholars, the College urges the student to confront the ultimate questions of human experience: who he is; where his destiny lies; how he is to reach it.

La Salle is committed to a liberal education of both general and specialized studies. It wants its students to liberate themselves from narrow interests and prejudices and to learn to observe reality with precision, judge events and opinions critically, think logically, communicate effectively, and sharpen esthetic perception. The curriculum involves a body of knowledge about the universe; about man—his nature, behavior, and values; about God. It also provides an opportunity to gain specialized knowledge in one field of learning as a preparation for graduate study or entry into professional life. Beyond this breadth and depth of knowledge, the College encourages its students to seek wisdom, that is, to grasp those basic principles which can give order to particular facts.

As a private Catholic college, La Salle pursues these aims in a religiously diverse community of teachers and students interested in studying secular subjects in their autonomy, undertaking religious studies in a systematic way, and investigating what interrelations these subjects may have. The community also engages in programs in which the students' personal, social, and religious values may take root and in which the students may grow in mature attitudes and behavior in all human relationships. The ultimate hope of the College is that its graduates will be ready for informed service and progressive leadership in their communities and will be able to fulfill the immediate and final goals of their lives.



the campus

For a city college, La Salle's campus is surprising. Tucked behind the brick facades on Olney Avenue is a pleasantly green and peaceful tract of about forty acres. Though buses stop at the door and the subway is only a few blocks away, the campus benefits from some of the country-like aspects of its site. Across 20th Street is historic Belfield, one of the few farms within the city limits. South of the campus lies Wister Woods, now a part of Fairmount Park. The result of these happy accidents of locale is that the campus retains a somewhat suburban atmosphere while losing none of the advantages of being an urban college.

In Philadelphia, these advantages are both educational and cultural. The city has a noteworthy group of educational institutions, with a variety of specialized libraries. Its orchestra and museums are internationally famous. Most of the city's cultural and historical resources are within convenient commuting distance from the campus.

Architecturally, the buildings on campus reflect the history of the College's growth, ranging from the traditional collegiate Gothic to the modern.

In addition to the classroom buildings (College, Wister, Holroyd, and Olney Halls) and the residence halls, the campus has the David L. Lawrence Memorial Library, the College Union, and the Hayman Hall athletic facilities.

Over 250,000 volumes are housed in the air-conditioned Lawrence Library and its Wister Hall Annex, along with reading rooms and files of a thousand periodicals. The College Union is a center of student activities, containing dining rooms, lounges, a theatre, and activities offices. The newly completed Hayman Hall features a swimming pool and diving well, basketball and squash courts, an indoor track, a sauna bath, and other athletic facilities.

The most recent addition to the campus is the art gallery, which houses the College's study collection of paintings.





the people

More than buildings, more than books, more than lectures and examinations, education is a matter of people. It is the people who make up La Salle—the students and the teachers—who give the College its character. You may well ask, “What are they like, these people with whom I may spend my next four years?”

As you might expect, your fellow students are a diverse group of men and women, not easy to categorize. Statistics permit a few generalizations, however: geographically, a majority are from the northeastern states; academically, three-fourths of them were graduated in the first or second quintile of their high school class. More than half of them hold part-time jobs, and 67% say they plan graduate or professional studies after college.

Your teachers at La Salle are Christian Brothers, priests, and lay professors. All of them share the same goal: to be of as much help to you, the student, as they can be. St. La Salle's dedication to teaching is the informing spirit of the College, and you will be conscious of this spirit in the willingness of your professors to give that extra moment of explanation or advice which can mean so much. While many of these men and women are engaged in their own scholarship or research, their primary focus is always the classroom and their basic obligation is to you, the student.

Making the transition between high school and college is never easy, but at La Salle you will find many people who want to help and who understand some of the problems you face perhaps better than you do yourself.





During the summer months preceding the start of classes you and your parents will be invited to participate in the Pre-College Counseling Program. At this time you will come to the campus for a full day of conferences with the Counseling Center staff, as well as representatives from Financial Aid, Housing, Placement and other areas of the College. During the program you will have a personal interview with a counselor to discuss your educational and career plans and will meet with an academic adviser who will assist you with your fall roster. In an informal atmosphere of small group discussions, you will also have the opportunity of sharing your ideas with other freshmen, with upperclassmen who have experienced the same transition, and with faculty members and administrators anxious to be of help. The overall aim of the summer program is to make your adjustment to college life as pleasant as possible.

In addition to this initial counseling program, the Counseling Center offers continued diagnostic and counseling services throughout your college years. If you are uncertain of your major or of your career plans, the staff is happy to assist you in making a sound choice based on your interests and capabilities. The Center also offers personal counseling and psychiatric consultation, as well as informational services about graduate and professional schools, drugs, selective service and a variety of occupations. Besides offering individual counseling, the Center also conducts group sessions on a variety of topics of concern to students. Management of anxiety—particularly test anxiety—assertiveness training, improvement of study skills, and group decision making are but a few of the topics that have been the focus of recent group programs. The sessions have proven popular and effective ways of aiding personal growth.

Being part of a church-related college means you are also part of a community in which people care about one another. The Campus Ministry plays an important role in maintaining that sense of community by stimulating student participation in planning and celebrating the liturgy, by encouraging Christian commitment to social action, and by generally making you more aware of what it means to care for God, yourself, and others.

Nor is your physical well-being neglected while you are on campus. A College physician is always on call, and a registered nurse is in daily attendance in the dispensary. Medical insurance is available and recommended to all students.

Throughout your college days, the Director of the Career Planning and Placement Bureau will be at your service to help you select a career and assist you in planning job campaigns. This office is sometimes able to assist students in finding part-time or summer jobs related to their career goals.

All in all, you will find the human side at La Salle an important part of your education. Long after you have forgotten painfully memorized facts from a textbook or lecture, you will remember the teachers and students with whom you associated in your college years.

the academic life

"The only privilege a student had that was worth his claiming," wrote Henry Adams, "was that of talking to the professor, and the professor was bound to encourage it." La Salle professors do encourage it, and classes are small enough to permit discussion and personal relationships with your teachers.

The result is an academic environment where learning and intellectual development are nourished. In more concrete terms, the result is the gratifyingly high number of prestige awards won by La Salle graduates. Over the past decade, for example, La Salle has had 21 Fulbright Scholars, four Danforth Fellows, and one Marshall Fellow.

The presence at La Salle of good teachers, a fine library, and uncrowded classes are all helpful to your academic success, but the actual achievement of your academic goals is ultimately up to you.

The most important adjustment to collegiate life you will have to make is in learning to budget your time wisely. No one will force you to learn; no one can. Instead, you will be treated as a mature, intelligent person. You will be given assigned readings, papers, and projects in research to be turned in by a certain date. You yourself must plan when these assignments will be done; you yourself must bear the responsibility for meeting standards set by your instructors.

The standards for academic achievement are treated in some detail in the reference section of this catalog and need not be discussed here. The important thing for you to realize about the academic side of your college life is that it is the central test of your maturity and sense of responsibility. Learning is sometimes hard work, but it is the most rewarding kind of effort, not only in grades but in the self-satisfaction of having met a difficult challenge successfully.

But the academic side of college is not just a bleak picture of challenges, responsibilities, and standards. The academic side really offers one of the deepest, most lasting joys a person can experience—the joy of understanding.

Suddenly some part of human experience fits into a pattern for you; suddenly you understand why. The best part of the joy of understanding is that it is endless. The deeper your understanding goes, the deeper the satisfaction you experience.

Perhaps you haven't yet discovered this kind of joy; you may even doubt that it exists. Yet when you first experience it, you will begin to understand what education is all about and why many people willingly devote their lives to study and research.

the residential community

Living in the La Salle residence halls should be an enhancing educational experience. As a member of the residence community, you have opportunities for greater participation in educational and social programs, community governance, and campus activities. Practically speaking, it is convenient to live in the residence halls. You are within short walking distance from all classes, the Library, the College Union, the gymnasium, and all faculty offices.

Approximately twenty-three students live on each floor of the residence halls. The group is small enough to encourage a spirit of friendship, yet large enough to provide for diversity of personalities and interests. As a resident you are exposed to a wide range of academic, cultural, and social opportunities.

The Office of Resident Life and the Residence Council sponsor parties, movies, coffee houses, lecture series, trips, and an extensive intramural athletic program. These activities, combined with the programs of the Student Life office and the varied athletic and recreational facilities, furnish a complete residential experience.

Life in a college residence hall is a unique experience not easily duplicated elsewhere. Living with friends—studying, dining, and socializing together—provides you with chances to learn about yourself, to explore and formulate attitudes and values, and to refine your ability to get along with people. At La Salle, many things—staff, students, facilities, organizations, location, and costs—are blended to offer residents opportunities to experience the benefits of living away from home in a college community.





the social life

The social side of college life is a vital part of your education. In living with others, planning activities together, and sharing your ideas in hours of informal discussion you are learning much that is a desirable part of liberal education. You are learning to understand and respect differing points of view; you are learning to discover new relationships and to develop your own convictions.

La Salle, like most colleges and universities, has recognized that student activities play a distinctive role in the total educational program. Participation develops social and leadership skills and provides an opportunity for students from diverse backgrounds to learn from one another. All students are encouraged to become involved in one or more of the social, cultural, educational, and recreational programs available.

Student participants on college committees share with the faculty and administration in identifying institutional objectives and developing policies and programs to maintain and improve the La Salle experience.

An important part of college, therefore, is the opportunity to voice your concerns and to test your thinking in conversations and meetings with others.

Athletics too may develop common interests among students, whether they are participants or spectators. Organized intercollegiate and intramural sports and recreation programs give each student an opportunity to participate according to interests. Male varsity teams include basketball, baseball, swimming, track, cross country, crew, soccer, golf, rifle, tennis, and wrestling. Female teams include basketball, crew, cross country, field hockey, volleyball, tennis, swimming, softball, and track. Intramural sports such as touch football, volleyball, basketball, softball, track, swimming, and water polo have male, female, and co-ed teams. The department also provides recreation opportunities in the gym, pool, squash courts, and sauna, seven days a week.

The La Salle College Union Building is the focal point of much out-of-class activity, offering facilities to complement the activities planned by student, faculty, and administrative groups. In addition to faculty members and administrators who work regularly with organized groups of students, the staff of the Student Life Office works to insure available Union building facilities and advice to extracurricular groups. The combination of students, faculty, and administration working together, sharing ideas and learning from one another, makes the social life a part of the growth and development opportunity at La Salle.

general reference



admissions

If a student is well-motivated toward a college career and can show evidence of academic achievement and ability, the Admissions Committee will welcome an application. In arriving at its decision, the Committee studies the high school record, test scores, and the recommendations from high school faculty, guidance counselor, and principal. Each applicant is given personal consideration. La Salle does not discriminate against any applicant for admission because of race, color, creed, sex, national origin or physical handicap. Admission is based solely upon an applicant's qualification and ability to meet the established admission requirements. The following are the specific requirements for admission:

HIGH SCHOOL UNITS

Your record should show successful completion of at least 16 units of high school work including the following:

English	4 units
Mathematics:	
Algebra & Plane Geometry or	
two years of Algebra	2 units
History	1 unit
Natural Science	1 unit
Foreign Language	2 units
	10 units

The remaining six units may be distributed as follows:

1. Applicants for the *Liberal Arts* program may present six other units in academic subjects.
2. Applicants for the *Science and Mathematics* program may present six other units in academic subjects but including an additional one and one-half units in mathematics.
3. Applicants for the *School of Business Administration* may present six academic or commercial units, excluding typing.

LANGUAGE REQUIREMENTS

All applicants should present two units in the same foreign language.

ENTRANCE EXAMINATIONS

Applicants to the freshman class are required to take either the American College Testing Program or the Scholastic Aptitude Tests given by the College Entrance Examination Board. These tests should be taken no later than January (SAT) or February (ACT) of the senior year. Arrangements may be made through your high school counselor or by writing, six weeks before the test date, to either:

CEEB—	The Educational Testing Service Box 592, Princeton, N.J. 08540
	or
	Box 1025, Berkeley, Calif. 94701
OR	The American College Testing Program
ACT—	Box 451 Iowa City, Iowa 52240

La Salle College's identification number: CEEB-2363; ACT-3608

ACHIEVEMENT TESTS

The CEEB Achievement Tests are not required. These tests are helpful to departmental advisers, however, in determining placement in certain English, mathematics, and foreign language courses. They are recommended, therefore, to students who:

1. wish to apply for a waiver of the freshman composition requirement;
2. desire immediate placement in a calculus course;
3. plan to continue study of a language in college after having completed at least two years of that language in high school.

MEDICAL RECORDS

All accepted students are required to have a report of medical history on file in the Dispensary prior to their attendance at the College.

FOREIGN STUDENT ADMISSIONS

La Salle College is authorized by the Department of Justice, Immigration and Naturalization Service to issue Certificates of Eligibility (Form I-20) for non-immigrant "F-1" student status, to foreign students who meet admissions requirements. Preliminary application materials are available from the Coordinator of Foreign Admissions, La Salle College, Philadelphia, Pa. 19141.

APPLYING FOR ADMISSION

The Committee on Admissions will consider a qualified applicant for acceptance any time after completion of the junior year. The following credentials are required for evaluation:

1. A completed application to La Salle College.
2. A transcript of three-year high school scholastic and personality records.
3. The results of the College Board Scholastic Aptitude Test or of the American College Testing Program.

The successful applicant must graduate from high school with creditable grades.

An interested student is encouraged to arrange for a campus visit, which might include a personal interview and tour. (Phone 215-951-1500)

In exceptional cases, students may be admitted after completion of the junior year on the recommendation of their high school counselor and evidence of superior achievement.

Applicants may secure application materials from the Office of Admissions. These materials include a form which is to be mailed directly to the College by the high school. Completed applications and the \$15.00 application fee should be sent to the Office of Admissions. The Director of Admissions will notify applicants as soon as possible after a decision has been made. If accepted, a student is asked to forward a \$100.00 deposit, usually within three months of acceptance. This deposit will be applied to first semester expenses; the entire deposit is forfeited if an applicant chooses not to attend La Salle.

ADVANCED PLACEMENT

La Salle College participates in the Advanced Placement Program of the College Entrance Examination Board. Consequently, the College agrees to give credit and/or advanced placement to students who perform satisfactorily both in college-level courses taken in secondary school and in the advanced placement examinations administered by the Board. The equivalents for the grading scale are:

- 5 or 4 = Advanced credit and advanced placement
- 3 = Same, on recommendation of departmental head
- 2 = Advanced placement only on recommendation
- 1 = No advanced placement or advanced credit

La Salle College also participates in the College-Level Examination Program of the College Entrance Examination Board. Students who wish to be considered for advanced credit through this program should write for information to the College-Level Examination Program, Educational Testing Service, Box 977, Princeton, N.J. 08540.

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TRANSFER STUDENTS

La Salle College welcomes qualified transfer students to the fall and spring terms, and to the Summer Sessions. Candidates for admission from colleges which offer courses of study similar to those of La Salle College should submit transcripts of their college records as soon after applying for admission as is possible. All except A.A. and A.S. degree holders are required to submit their high school transcripts also. Transfer students should submit the results of College Entrance Examination Board tests or of the American College Testing Program, if available. A letter of appraisal from the Dean of Students of the college or university attended is requested in most cases.

All of these records should be in the Admissions Office at least 30 days before the beginning of the semester for which the student is applying. This interval is suggested to provide ample time to process the application, to evaluate transcripts, and to arrange a pre-registration interview.

The previous college record of the applicant must indicate good academic standing. A student applying for transfer from a fully accredited college or university should have a grade point average of 2.25 or higher (on a 4.00 scale). Transfer applicants from colleges which have applied for regional accreditation will be considered if their grade point average is 2.75 or higher (on a 4.00 scale). The decision on each applicant is based on the grade point average earned at the college or university attended prior to applying to La Salle.

Credit will be allowed for courses completed with grades above the lowest passing grade given at the institution from which the applicant is transferring. Normally, 70 credits may be accepted for transfer.

Transfer students may be required to make up certain courses which belong to the sequence required in the program of studies for which they are applying.

Interested prospective transfer students should direct their inquiries to the Coordinator of Transfer Admissions.

ACADEMIC DISCOVERY PROGRAM

The Academic Discovery Program (Pennsylvania ACT 101) is a special program which provides free counseling and tutorial support services for students whose records indicate that they could benefit from extra academic assistance and who also meet certain criteria of financial need. The ADP helps students establish good study habits, clear career goals, and the ability to compete successfully in the academic setting. Members of the ADP participate in a free pre-college summer program before their freshman year and in assigned counseling and tutorial sessions along with their regular courses during the academic year. As much as possible, each student's program is tailored to his or her individual needs. To obtain application materials, or for further information, write or call the Day Admissions Office, 951-1500. For information about the Community Academic Opportunity Program, administered by ADP, see page 33.

ADMISSIONS FOR VETERANS

All veterans with proof of a high school diploma or its equivalent, who have not been dismissed or placed on probation at another institution of higher learning since separation from service, are eligible to enroll as full-time students at La Salle College. Veterans should telephone the Veterans Affairs Office for specific information.

CONTINUING EDUCATION FOR WOMEN

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The CEW program at La Salle was created to smooth the way for adult women who wish to begin or resume their college education. Women may enter this program in the Day or Evening Division whether they are interested in taking single courses or pursuing a degree. Any woman 25 years or older who has a high school diploma or equivalent is eligible to apply; no standardized examinations are required for admission. The program includes an orientation day, study skills workshops, support groups, individual counseling, academic advising, assistance in finding tutors, the availability of day care facilities, and social get-togethers for CEW students. A pre-admission interview with a staff member will help with questions a student may have about her educational and career goals, La Salle courses, and possible schedules. To apply for admission through this program, contact the CEW office, located on the lower level of College Hall or telephone 215-951-1060. The office hours are 9:30 to 8:30 Monday through Thursdays, 9:30 to 4:30 on Fridays.

ACCOMMODATIONS FOR RESIDENTS

The residence halls accommodate approximately 900 students, and consist of nine coed dormitories and two apartment complexes with one- and two-bedroom furnished apartments, open to upperclassmen and married students. Children are welcome in the apartments. Building Blocks, a day care center, is located near the complex. To reserve a room in the residence halls, a student should indicate on the application an intention to live on campus, and when confirming acceptance to the College submit the required \$100.00 residence hall deposit. Should the student decide after the summer deadline date not to occupy the room reserved, the entire advance deposit is forfeited.

Each room in the residence hall is furnished with a bed, desk, bureau, book shelf, mirror, two lamps, an easy chair, and drapes. The apartments are similarly furnished. Students may supply their own linen; however, the College will provide a weekly linen supply service for a nominal charge. Adequate laundry facilities are available within the residence complexes. Many personal needs such as toilet articles, paper supplies, towels, magazines, and sportswear may be purchased at the Campus Store.

The residence halls provide complete study, recreation, and living-learning facilities. There are five air-conditioned, carpeted lounges in the complexes. They are large and comfortably furnished. Four of the lounges are equipped with color televisions; the fifth and several smaller lounges located throughout the complexes are reserved for quiet study.

Meals are provided in the College Union Dining Halls. Since the meals must be planned on the basis of total participation by the resident community, no adjustment in fees can be expected for meals not taken on campus. Students have the option, however, of purchasing either a five or seven day meal ticket. Special diets for medical reasons can be arranged through the Food Service.

Both the residence halls and the dining halls are closed during the Thanksgiving, Christmas, Spring, and Easter recesses.

The residence halls have facilities for the installation of telephone service in each room. Residents who want this service should make arrangements directly with the telephone company. Public telephones are also located on every floor of the residence halls. Calls for residents cannot come through the College switchboard.

Residents are permitted to have cars on campus. The lot facilities are adjacent to the halls, but during class times parking is limited.

The residence halls administration is headed by a professionally trained staff who reside there. In addition, a student staff member resides on each floor of the dormitories to provide information, referrals, and assistance in problem solving and program planning. The staff is an outgoing and diversified group who are interested in working with students to make college life in residence an enjoyable and worthwhile experience.

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COURSE SELECTION

All accepted students will receive a course selection form in the mail in early April. At this time they may indicate their choice of courses for both the fall and spring terms. Additional academic counseling is available to freshmen during the Pre-College Counseling Program in the summer.

STUDENT HEALTH SERVICES

The La Salle College Dispensary provides medical diagnosis and treatment of minor illnesses and injuries and is available to the student body for initial care, first aid, and health information. Located in the North Complex of the Residence Halls on Olney Avenue, directly across from Hayman Hall, it is open Monday through Friday. The Dispensary is staffed by a registered nurse who serves as the Director. College physicians see students in the Staff Clinic of Germantown Hospital five days a week and a physician is available in the Dispensary weekly. The Clinic is located on the first floor of the hospital and referrals to the clinic are made by the nurse from the Dispensary. All students are required to complete the Student Health Services-Health Questionnaire prior to their attendance at the College.

Both medical and dental emergency services have been arranged with local hospitals, and a complete list of private physicians of every medical speciality is also available. Students are responsible for the costs of these treatments.

Health insurance is strongly advised for all students, especially those in residence, and is required for all international students. Students who are under 23 years of age generally can be covered under their own family Blue Cross (Hospital Insurance) and Blue Shield (Medical-Surgical Insurance) program while enrolled as full-time college students. Information concerning special Students' Blue Cross and Blue Shield plans for those not covered by family plans is available.

expenses

Basic tuition—per academic year	\$3,320.00
Additional for science majors (biology, chemistry, physics, geology)	120.00
Tuition—for courses taken in excess of or less than a normal schedule—per semester credit hour	105.00
Science Laboratory Fee—charged non-science majors electing to roster certain designated science courses—per course	30.00
Computer Science Fee—charged for all Computer Science courses except CSC 355 and 458— per course	30.00
Fees (charged to entering students): Counseling and Orientation	30.00

	5-day meal book	7-day meal book
Room and Board:		
Residence Halls—per academic year:*		
Single room	\$2,130.00	\$2,370.00
Double room	1,890.00	2,130.00
La Salle Hall Apartments—room rent only:		
Student occupied—per student—per academic year	950.00	
Married couple or family occupied—per month	250.00	
Meal book purchased separately	1,080.00	1,350.00

*Freshmen and transfer students pay an additional \$25.00 for the fall term orientation period.

In view of rising costs, La Salle College must reserve the right to amend or add to the charges at any time and to make such changes applicable to students presently enrolled as well as to new students.

METHOD OF PAYMENT

Students are billed twice a year for one-half of the annual tuition and the room and board costs. Invoices for the fall semester are due in mid-August and for the spring semester in mid-December. Payment in full of the semester invoice within the time prescribed is a prerequisite to the completion of registration and inclusion on the official class lists.

The College does not carry open student accounts. However, extended or monthly payments may be arranged through a bank loan program offered by a Philadelphia bank. In addition, Master Charge and VISA credit cards may be used for payment of College expenses. Application for the bank loan program must be made directly with the bank well in advance of registration. Information regarding the bank loan program may be obtained at the Office of the Bursar of the College.

GRADUATION FEE

A graduation fee of \$40.00 is due and payable in the spring semester in which the degree will be awarded. The College cannot be responsible for the inclusion in the graduation program of any candidate who pays fees after the deadline set at the billing

date. The graduation fee covers the Senior-Faculty Reception, baccalaureate services, the cost of the diploma, the use of cap and gown, and all other expenses incidental to the commencement exercises. No candidate may be recommended for a degree, diploma, or certificate until the graduation fee and all other financial obligations have been paid.

REFUND OF TUITION

Under certain circumstances, students who withdraw may receive a partial refund of tuition. Information on terms and conditions is available on the student's matriculation card. There are no exceptions to these terms and conditions. Additional inquiries may be directed to the Bursar's Office.



financial aid

No student is denied admission because of financial need. The financial aid programs at La Salle provide opportunities for scholarships, grants, loans, and student employment. Eligible applicants for financial aid will be considered for any form or combination of forms of assistance.

Since the primary responsibility for college expenses rests with the parents and student, financial assistance is normally granted on the basis of financial need together with demonstrated and potential academic achievement. Currently, La Salle College participates in the College Scholarship Service (CSS). Incoming students seeking assistance are required to submit a Financial Aid Form (FAF)[†] to CSS before February 15, 1980. Forms are available at the guidance office of the secondary school or from La Salle College. Students are also expected to apply to appropriate state grant programs.

CHRISTIAN BROTHERS' SCHOLARSHIPS

Fifteen scholarships providing up to full tuition are offered annually to high school seniors who have demonstrated exceptional academic aptitude and achievement. Eligible students are selected from incoming freshmen graduating from Catholic high schools in the Philadelphia and Camden dioceses, and are nominated by the high school principals.

ACADEMIC SCHOLARSHIPS

Twenty seven scholarships providing up to full tuition are offered annually to high school seniors who have demonstrated exceptional academic aptitude and achievement. Academic scholarship competition is open to high school seniors meeting the following minimum requirements: academic rank in the top 10 or top 10% of the graduating class; College Board scores totaling at least 1300. Application packets are available from the Director of the Honors Center on campus.

NATIONAL MERIT GRANTS AND SCHOLARSHIPS

Students selected as National Merit Finalists, semi-finalists, and letter-of-commendation recipients are eligible for grants through the College. Finalists qualify for \$800 per academic year, semi-finalists receive \$600 per academic year, and commendation recipients are granted \$300 per year. These are awarded to incoming freshmen and can be renewed yearly pending completion of the FAF.[†]

La Salle College offers two National Merit Scholarships annually ranging from \$250 to \$1500 per academic year. Students are selected by National Merit Scholarship Corporation from those qualifying in the College Boards and indicating La Salle College as the first choice institution. Nominees should complete an FAF.[†]

[†]PLEASE NOTE: FOR THE 1981-82 ACADEMIC YEAR, ALL STUDENTS WILL BE REQUIRED TO COMPLETE THE PENNSYLVANIA HIGHER EDUCATION ASSISTANCE AGENCY BASIC EDUCATIONAL OPPORTUNITY GRANT APPLICATION (Composite Form) FOR CONSIDERATION UNDER CAMPUS BASED FUNDS. THE FAF WILL NO LONGER BE USED BY LA SALLE COLLEGE. THIS COMPOSITE FORM SHOULD BE SUBMITTED BEFORE FEBRUARY 15, 1982, TO INSURE FULL CONSIDERATION FOR FINANCIAL ASSISTANCE.

CHRISTIAN BROTHERS' GRANTS

La Salle College offers a limited number of partial grants to students who have established exceptional financial need through a needs analysis system, e.g. FAF.[†] These partial grants can be renewed yearly pending completion of the needs analysis form.

ATHLETIC GRANTS

La Salle College offers grants to men and women excelling in athletics. Contact with the La Salle College Athletic Department is made by the student's high school coach. These grants can be maintained through the four years of study at La Salle College. Athletes are required to file an FAF.[†]

COMMUNITY ACADEMIC OPPORTUNITY PROGRAM (CAOP)

The Community Academic Opportunity Program is designed to assist economically and culturally disadvantaged minority students to obtain an education at La Salle College. CAOP is a program geared to attract students from surrounding neighborhoods; specifically, a student must reside in zip code areas 19119, 19120, 19138, 19141, 19144 or 19150.

The basic CAOP grant includes \$1500 per year towards the cost of tuition and up to \$150 per year for books; CAOP students must also apply for PHEAA and BEOG and complete an FAF.[†]

Further information and application materials are available from high school counselors or the Admissions Office of La Salle College.

GULF OIL FOUNDATION LOANS

La Salle College, in conjunction with Gulf Oil Foundation, offers loans to students who, for personal, financial, or other reasons, are unable to secure assistance through conventional channels at a low rate of interest.

To be eligible to apply, a student must: be a U.S. citizen; be enrolled in a program of study leading to a degree; be taking a minimum of six credit hours during each semester that the funding is used; have a minimum of sixty credit hours completed; be in good academic standing.

Applications are available from the Financial Aid Office. Students must file an FAF.[†]

LAW ENFORCEMENT EDUCATION PROGRAM

This federal assistance program is designed to help improve the nation's criminal justice system—police, courts, and corrections—by enhancing the quality of criminal justice personnel through opportunities for higher education. Loans as well as grants are available to students at La Salle College who are actively employed by a law enforcement agency. For further information and applications, contact the Director of Financial Aid.

BASIC EDUCATIONAL OPPORTUNITY GRANT (BEOG)

The BEOG program is a federally administered program available to needy students taking no fewer than six credits per term. Students may receive from \$200 to \$1800 per academic year with eligible incomes ranging up to an adjusted annual figure of \$25,000. Applications are available from your high school guidance counselor or the La Salle Financial Aid Office. Eligibility is determined by the federal government and notification

is sent directly to students. In addition to financial need, a student must make normal progress toward a degree to retain eligibility.

PENNSYLVANIA HIGHER EDUCATION GRANTS (PHEAA) AND OTHER STATE GRANT PROGRAMS

Pennsylvania state grants are administered by Pennsylvania Higher Education Assistance Agency and range from \$100 to \$1500. Eligible students must demonstrate financial need, maintain Pennsylvania residency, be enrolled on a full time basis, and complete a minimum of twenty four credits per year. Applications are available from high school guidance counselors or the Financial Aid Office.

Other states in addition to Pennsylvania have scholarship programs for their residents. Information and applications would be available from the respective State Boards of Education.

NATIONAL DIRECT STUDENT LOANS

The NDSL provides needy students with long-term, low interest loans for educational expenses. The College determines the amount of the loan to be offered within certain federal guidelines. Interest at the rate of 3% per year on the unpaid balance begins to accrue nine months after the student ceases at least half-time study. The loan repayment period must not exceed ten years, depending upon the total amount borrowed. Students must make normal progress toward a degree to maintain eligibility. La Salle College requires submission of an FAF⁺ to determine eligibility.

COLLEGE WORK STUDY PROGRAM

The College Work Study program provides needy students with access to part-time jobs in both on and off-campus locations. The funds earned do not provide direct tuition relief, but are intended to help meet incidental expenses encountered by students. Students are paid on a weekly basis for the number of hours worked. The total amount that may be earned through the work program is determined by students' needs and availability of funds at the College. Employment is limited to an average of fifteen hours per week while school is in session. La Salle College requires submission of an FAF⁺ for eligibility evaluation. In addition to demonstrating need, students must make normal progress toward a degree to maintain eligibility.

SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANTS (SEOG)

The SEOG program is a federally funded college administered program available to exceptionally needy students in amounts up to \$1500 per academic year. La Salle College requires submission of a needs analysis form,[†] for eligibility evaluation. In addition to financial need, students must make normal progress toward a degree to retain eligibility.

STATE GUARANTEED LOANS (SGL)

This loan program is administered by state governments with the assistance of participating lending institutions. Students taking at least six credits may apply to the program and receive as much as \$2500 per academic year, at the rate of 7% interest per year. Interest will begin to accrue nine months after the student ceases at least half-time enrollment. Students should contact home state bank systems regarding program participation. Processing of the application may take as long as eight weeks.

PRIVATE SCHOLARSHIPS

There are many special assistance programs that offer scholarships, grants, and loans to students. You may qualify for one of these programs through religious affiliation, ethnic heritage, parents' employers, organizational memberships, or a special talent. Programs through state and/or federal agencies—e.g., Veterans' Bureau, Bureau of Vocation Rehabilitation and Social Security Bureau—may also offer financial aid to qualified students. Knowledge of these programs is available through books and pamphlets on scholarship and financial aid in your school or local library or in the Financial Aid Office.

Information on private scholarships frequently received by La Salle students may be obtained from the following sources:

Philadelphia City Scholarship Program, 516 City Hall Annex,
Philadelphia, PA

Hero Scholarship, City of Philadelphia, Room 490, City Hall,
Philadelphia, PA

Bulletin Scholarship Foundation, Bulletin Building, Philadelphia, PA

J. Wood Platt Caddie Scholarship, % Cecil J. Barnett, Esq., 20 Bala Avenue,
Bala-Cynwyd, PA 19004

LSC Alumni Scholarship, Director of Financial Aid, La Salle College, Philadelphia,
PA 19141

Lindback Scholarship, Director of Financial Aid, La Salle College, Philadelphia,
PA 19141

Bishop Corrigan Memorial Scholarship, Director of Financial Aid,
La Salle College, Philadelphia, PA 19141

Robert L. Dean Writing Scholarship, Director of Financial Aid, La Salle College,
Philadelphia, PA 19141

Berger-Wallace Scholarship, Director of Financial Aid, La Salle College,
Philadelphia, PA 19141

Merrill Trust Fund, Director of Financial Aid, La Salle College,
Philadelphia, PA 19141.

Army ROTC Scholarships, P.O. Box 12703, Philadelphia, PA 19134

APPLICATION PROCEDURES FOR FINANCIAL ASSISTANCE

A candidate who desires financial assistance must submit the Financial Aid Form (FAF)[†] to College Scholarship Service no later than February 15. Applications received after that date will be considered only if there are funds available.

Financial aid awards will be announced approximately six weeks after acceptance into the College.

Most types of financial aid require annual application. All applications for renewal consideration must be filed by March 15.

La Salle College's financial aid programs are organized to help the able student who needs financial assistance. As long as there is continuing evidence of academic progress as well as financial need, the College will make every effort to assist the student.

academic programs and procedures

REGISTRATION

During an announced pre-registration period in the spring term, a student meets with his chairman or adviser to plan his roster of courses for the upcoming year. On the basis of this pre-registration, the Registrar's Office publishes a Master Roster listing courses, times scheduled, and teachers assigned. The student then chooses his course section, time, and teacher. The Business Office will bill the student in August and December for the courses chosen, completing the registration process.

Students who have not completed mail registration will register on campus during the week before classes begin.

If a student cannot register during this period because of circumstances beyond his control, he may complete registration during the first two days of classes.

Late registration is permitted only in the most unusual circumstances and requires the permission of the dean of the school and the payment of a fee of \$10.00.

PROGRAM OF STUDIES

The program of studies prescribed by the student's adviser and approved by the dean of the school in which the student is enrolled is his official roster of courses.

It is the student's responsibility to see that all the requirements of his program are fulfilled. He should have in writing from the dean any exceptions to the prescribed program which may be granted him.

A student may be permitted to change from one program to another, or from one area of instruction to another, only when his previous record indicates that he may profit by such a change. In any change of this type the student must have the written permission of his chairman and the dean of his school. This change may entail taking approved summer courses or an additional semester in college. In no case may a student who transfers receive promotion or a degree sooner than he would have received it had he not transferred. No degree may be received less than one year after change of curriculum.

CLASSIFICATION OF STUDENTS

A full-time student carries a *minimum* of twelve semester hours, although normal progress toward a degree requires an average of fifteen hours a week. A student's program may require more hours per week in some areas of instruction.

Class level is determined by the number of credit hours earned by the student. Students having 0 to 23 credit hours are considered freshmen; those who have earned 24 to 53 credits are sophomores; those having 54 to 83 hours juniors; and those with more than 84 credit hours are classified as seniors.

Part-time students carry a roster of less than twelve hours per week. Students in this category will require more than the normal four years in which to earn a degree.

Students who do not fulfill certain admission requirements may be admitted to follow particular courses and are considered as special students. They do not register for a degree granting program. Credits earned by a special student may be counted towards a degree as soon as he has met all the requirements for admission and candidacy for a

degree provided that the credits thus earned be applicable to his program of studies for the degree. A special student cannot hold a scholarship nor take part in extracurricular activities.

URBAN STUDIES

Students may design a minor concentration by choosing distribution requirements and electives in Urban Studies. The Economics Department supervises this program but it is multi-discipline in all essentials. Economics, Political Science and Sociology faculty co-teach most of the courses and professors from an even wider group of disciplines serve in close advisory capacities.

After five introductory courses students complete their Urban Studies concentration with a senior semester of integrated seminars and field work. Placements and projects are chosen to complement major programs. At all levels students and faculty work closely with the staff of the La Salle Urban Studies and Community Services Center.

CONCENTRATION IN INTERNATIONAL STUDIES

Any student, regardless of his or her major field, can pursue as an interest the Concentration in International Studies. This multi-discipline program allows the student to select courses offered by many departments.

The Concentration in International Studies requires a total of seven courses. At least four of these can also fulfill other college requirements.

Economics, Political Science, and Business students will have to use only two or three electives in order to complete the program. Other students will have to devote about four elective courses for this purpose.

Students planning to spend one or two semesters abroad will probably be able to complete a portion of the program there and should meet with the Director before departing.

Interested students should see Dr. Joshua Buch, the Program Director, College Hall 314, Ext. 1030.

DUAL MAJORS

In some circumstances, a student with special needs and abilities may be permitted to major in two departments or to follow a special interdepartmental program. After developing the program in consultation with both departments, the student must obtain approvals of both chairmen and of the dean. Arrangements should normally be completed during the spring semester of the sophomore year.

HONORS PROGRAM

The Honors Program is designed to provide the most academically talented students with an enriched program of general studies that will be both challenging and stimulating. The freshman honors student, as an apprentice in the program, studies in honors sections of two or three required courses. If he proves himself able and interested, he continues with honors courses in such areas as religion, philosophy, and English, which offer more depth and more advanced reading. In the upper division, such courses will frequently be given by distinguished visiting professors.

In his last two years, the honors student may, with the approval of his chairman, substitute an independent study course in each semester for any regularly scheduled course except religion or seminar. Class meetings in these courses are less frequent, and

emphasis is on individual reading and research. Students who complete the requirements of the Honors Program are graduated with General College Honors. Further information on the program is available from the Director of the Honors Program.

COOPERATIVE EDUCATION PROGRAM

The Cooperative Education Program permits students to integrate classroom theory with practical experience by alternating specific periods of attendance at the College with specific periods of employment.

A student may begin a coop program as early as the sophomore year and still complete requirements for graduation within four and a half years. Cooperative education can add relevance to a student's academic program, furnish practical experience, afford an understanding of human relationships outside of one's peer group, and provide realistic vocational information as well as financial assistance.

Students interested in learning more about this new program should see the Director of Cooperative Education.

LA SALLE IN EUROPE—FRIBOURG, SWITZERLAND

Recognizing the advantages of travel in other countries and first-hand contact with other cultures, La Salle College offers a sophomore and junior year program which provides its students a first-hand opportunity to study at the University of Fribourg in Switzerland. Nestled in the valley of the Sarine, Fribourg is one of the most beautiful cities in one of the most beautiful countries in the world.

A unique feature of the University of Fribourg is its official bi-lingual character; courses are offered in both French and German, often the same course in either language. In conjunction with Providence College, La Salle College forms part of the American College Program of the University of Fribourg. This organization offers many courses in English.

In most instances, students will be housed in private homes or apartments located near the university. The rooms are chosen by the resident director of the program. Students accepted into the program attend an orientation course during the semester prior to departure. Those students deficient in French or German will be permitted to enroll in special courses during the summer before departure. A 2.5 Grade Point Average is required. Interested students should see Dr. Glenn Morocco, Director of Foreign Studies.

UNDERGRADUATE LANGUAGE PROGRAM—UNIVERSITY OF SEVILLE

La Salle College is a member of the Council on International Educational Exchange and a consortium of 40 colleges and universities which forms a Cooperative Study Center in Seville, Spain.

The University of Seville is one of the oldest universities in Spain. Students may apply for a semester or an entire academic year. Each five-month session consists of two cycles. The first provides intensive language training, and the second offers a variety of special courses including Spanish language, literature, art, contemporary civilization, and teaching English as a foreign language. Students are housed in private homes. Meals are taken at the place of residence.

The principal aims of the program are:

1. To help the student achieve fluency in the spoken and written language.
2. To give the student the opportunity to experience and understand the nature of

Spanish society and institutions through constant and direct exposure to the nation's history, art, and contemporary life.

3. To prepare the future teacher of Spanish for the role which he will play in the classroom situation.

Interested students should see Dr. Glenn Morocco, Director of Foreign Studies.

NURSES' COOPERATIVE PROGRAM

La Salle participates in a cooperative program with a number of area hospitals in teaching the basic sciences to the students from these hospital schools. The essential program remains under the control of the parent schools. These students receive college credit for those courses attended at La Salle.

URBAN STUDIES AND COMMUNITY SERVICES CENTER

The Urban Studies Center seeks to involve the resources of the College in the larger urban community. Its major programs are: (1) the Communitarity—non-credit adult education designed for area residents, (2) technical assistance to neighborhood groups in grant and program development, and (3) community organization services focused on the needs of the low-income, multi-racial and ethnic communities bordering the College. The Center also draws upon the experience of neighborhood leaders to enrich its programs and La Salle's Urban Studies curriculum. Students and faculty with urban research and social service interests are encouraged to visit the Center, located at the corner of Wister and Clarkson, or to call 951-1188.

COMMUNITY ACADEMIC OPPORTUNITY PROGRAM (CAOP)

The Community Academic Opportunity Program provides funding for disadvantaged students who are residents of Northwest Philadelphia and meet other academic, economic, personal, and motivational criteria. Interested applicants should apply through the Academic Discovery Program (see page 22), completing the CAOP form included in their ADP Application Kit.

COURSES AT CHESTNUT HILL COLLEGE

The cooperation of La Salle with Chestnut Hill College, a Catholic college for women situated about five miles from La Salle, results in a valuable coordination of programs. Students from either of the associated colleges can register for courses at the other college, with full credits, and without the payment of extra tuition. The calendar for the academic year in both colleges is identical. Students wishing to register for courses offered at Chestnut Hill will follow the same procedure as when they register for courses at La Salle. Classes at Chestnut Hill begin on the hour, at La Salle on the half-hour.

Students interested in preparing for elementary education may take part in a special cooperative program with Chestnut Hill College, which may be arranged in consultation with the Dean of the School of Arts and Sciences.

SUMMER SESSIONS

A variety of courses are offered in both day and evening sessions during the summer. A student may use these courses to enrich his academic program, to lighten his regular schedule, to make up failures, or, in some instances, to accelerate his progress toward a degree. The Summer Sessions are administered by the Dean of the Evening Division.

Properly qualified applicants from other accredited institutions are also admitted to the Summer Sessions.

RESERVE OFFICERS' TRAINING CORPS PROGRAM

Freshmen (male and female) may elect to participate in the Reserve Officers' Training Corps at La Salle by so specifying on their Course Selection Form. No service obligation is incurred during the first two years.

Students who successfully complete the basic course for freshmen and sophomores may be chosen for the advanced course. Advanced course students and ROTC scholarship recipients also earn a monthly stipend of \$100.00 (See page 28 for additional information on the ROTC Scholarship Program.) Cadets earn approximately \$317.00 per month while attending the Advanced Summer Camp.

Students transferring to La Salle as juniors, or current students who have not previously participated in ROTC, may take advantage of the special two-year program. They should make arrangements through the Professor of Military Science during the spring term of their sophomore year. They begin the program by attending a six-week Basic Summer Camp the summer before their junior year. During their last two years, they attend ROTC classes and take part in the Advanced Summer Camp.

Additional information is available from the Professor of Military Science, La Salle College, Philadelphia, Pa. 19141.

ATTENDANCE POLICY

Students are expected to attend classes regularly. Absences are permitted to provide for conditions beyond the control of the student. Ordinarily, these would be equal to twice the semester hours scheduled for the course; for example, six absences in a three-hour course. Attendance is noted from the first regular class meeting regardless of the time of registration.

EXAMINATIONS

The last week of each semester is set apart for final examinations. Examinations to measure student progress are given at mid-term. Students who, for satisfactory reasons, fail to take a semester examination as scheduled may take a delayed examination.

GRADES

The following system of grades is used in measuring the quality of student achievement.

A Superior	C Average	F Failure	W Withdrawal	U Unsatisfactory
B Very Good	D Passable	I Incomplete	S Satisfactory	X Audit

In the determination of final grades for courses, recitations, written assignments, and the results of the final examination are considered.

Incomplete: The I grade is a provisional grade given by an instructor to a student who has otherwise maintained throughout the semester a passing grade in the course, but who has failed to take the semester examination for reasons beyond his control. Make-up examinations for the fall semester must be completed before the opening day of the spring semester. All I grades that have not been removed within three weeks after the last regular examination of the semester become F's. When it is physically impossible for the student to remove this grade within the time limit, he must obtain a written extension of time from the dean of his school.

Withdrawal. The W grade is assigned when a student withdraws from a course with the dean's permission before its completion. Ordinarily permission for withdrawal is not granted after mid-term examinations.

Satisfactory or Unsatisfactory. Students may take free electives under a pass/fail option. If they indicate this option to the Registrar within two weeks after the course begins, the grade for the course will be recorded as S or U. Such a grade will not affect the cumulative index, but semester hours graded S will be counted toward the total required for graduation. The purpose of this option is to encourage choice of challenging electives, including those outside the student's major field.

Audit. The X grade is assigned for courses audited. A student wishing to audit a course must so indicate at registration and must have permission from his instructor and dean.

Courses repeated: If a student repeats a course, only the higher grade is counted in the academic index. A student may not repeat a course more than once without permission from his dean.

STUDENT RESPONSIBILITIES

A student's matriculation at La Salle College is a voluntary decision which involves acceptance of the responsibility to perform academically and to behave socially in ways consistent with the goals and objectives of the College. When registering at La Salle, the student accepts College rules and regulations and the authority of the College to exercise disciplinary powers including suspension and dismissal. As a member of student organizations and as an individual, the student assumes responsibility for knowing and complying with all existing regulations in the *College Bulletin*, the *Student Handbook* and any rules and regulations subsequently promulgated through appropriate publication to the College community. Copies of the *Student Handbook* may be obtained from the Dean of Students' Office.

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STUDENT REPORTS

A progress report is submitted to the Dean's Office by each instructor at the middle of each term. Final grades are submitted to the Registrar's Office at the end of a semester and these are made part of a student's permanent record. A report of semester grades is mailed to the student within two weeks after final examinations.

SCHOLARSHIP INDEX

A scholarship index system is used at La Salle to determine a student's average grade. In determining the index, each letter grade is ascribed a numerical value, called grade points. A is valued at 4 grade points; B is valued at 3 grade points; C is valued at 2 grade points; D is valued at 1 grade point; F is valued at zero grade points.

A grade point score is calculated for each course by multiplying the numerical equivalent of the letter grade by the number of semester hours. The index, or the average grade of all courses, is found by dividing the sum of the grade point scores for all courses by the total number of semester hours of course work attempted.

ACADEMIC STANDING

First year students are required to earn a minimum average of 1.50 to be in good academic standing; second year students, 1.75; third year students, 1.90. Averages are computed at the completion of each semester.

DEAN'S HONOR LIST

The Deans' Honor List is published at the termination of each semester.

Those students who have a cumulative average of 3.4 are placed on the Deans' List. To be eligible for this list, a student must have complied with all the regulations of the College and must have earned 24 credits with letter grades A, B, C, or D at La Salle College.

While students on the Deans' List are excused from class attendance regulations, they are expected to fulfill the requirements of every course rostered. They are also eligible for courses in the College's honors program.

ACADEMIC CENSURE

Academic censure may assume any one of three forms, depending on the student's academic standing. During the evaluation of student records at the end of each semester, a student will normally be subject to the form of academic censure indicated if the cumulative grade point average falls below the levels outlined.

(a) *Probation.* A student is placed on probation who has attained a cumulative grade point average of (a) less than 1.50 after the first or second term of freshman year, (b) less than 1.75 after the first or second term of sophomore year, (c) less than 1.90 after the first term of junior year, (d) less than 2.00 after the second term of junior year or during senior year. Such a student will be continued on probation until he has satisfied the conditions for good academic standing.

(b) *Suspension.* This is involuntary separation of the student from the College for a definite period of time, usually for two semesters. No academic work during a period of suspension will be accepted for a student's academic record at the College.

(c) *Dismissal.* This is involuntary separation of the student from the College for an indefinite period of time. No academic work during a period of dismissal will be accepted for a student's academic record at the College.

A student is liable to suspension or dismissal: (1) when he has attained a cumulative scholarship index of (a) less than 1.00 during his freshman year, (b) less than 1.50 during his sophomore year, (c) less than 1.75 during his junior year, (d) less than 1.90 after his junior year; (2) when he is on probation for two successive semesters.

CREDIT FOR OFF-CAMPUS COURSES

Course work taken at other institutions by regularly-enrolled students at La Salle College may not be offered for credit unless the student has had written permission in advance from the dean of his school to take such courses. Credit is transferred only for marks of C or better. The student's index may be affected only if the credit is for a course previously taken at La Salle.

REQUIREMENTS FOR A DEGREE

Students are responsible for filing an application for degree with the Registrar one year before the expected date of graduation.

The candidate for a degree must have completed course work equivalent to a minimum of 120 semester hours. Certain curricula may require a number of hours exceeding this minimum. In addition to completing the required hours, the student must:

(a) have obtained a C average or cumulative index of 2.00 in his prescribed program of studies.

(b) have fulfilled all course requirements prescribed for him by the chairman of the department in which he majored and approved by the dean of the school in which he is enrolled

(c) have fulfilled the General Education and Distribution Requirements.

(d) have completed eight semesters as a full-time student, including the two semesters of senior year.

HONORS

The bachelor's degree with honors is conferred on a student who has completed his course at the College with an average of all marks not lower than 3.4 and who has not incurred the penalty of loss of good standing for disciplinary reasons.

The candidate for the bachelor's degree who has earned an average of 3.8 in all courses is graduated with the distinction *Maxima Cum Laude*.

The candidate who has earned an average of 3.6 is graduated with the distinction *Magna Cum Laude*.

The candidate who has earned an average of 3.4 is graduated with the distinction *Cum Laude*.

Honors are computed on the basis of the work done for eight semesters.

WITHDRAWALS

A student who withdraws from the College must submit a withdrawal notice to the dean of his school. The date of filing the withdrawal notice is considered as the date of withdrawal in all cases.

TRANSCRIPTS

Students may apply at the Registrar's Office for a transcript of their collegiate work. Official transcripts bearing the signature of the Registrar and the seal of the College are sent, at the request of the student, to other institutions and organizations. Students requesting transcripts for their own use are given copies marked "student copy." Each student is sent a copy of his transcript at the time of graduation. A fee of \$1.00 is charged for an official transcript. When several copies are requested at the same time, the fee is \$.50 for each additional copy. The College requires at least one week's notice for the issuance of transcripts. No transcripts can be issued until all financial obligations to the College have been satisfactorily settled.

arts & sciences



DEGREE PROGRAMS

The School of Arts and Sciences offers general or liberal arts programs and programs in science and mathematics. Within these two areas you may further specialize in a major field of study. In the liberal arts, the Bachelor of Arts degree is offered in art history, economics, English, foreign languages, history, music, philosophy, political science, religion, and sociology. Concentration in the science area may lead to a B.A. degree in biology, chemistry, geology, mathematics, physics, or psychology.

The School also offers programs designed as preparation for communications, health professions, law, public administration, teaching, social work, and work in criminal justice.

Preparation for the Health Professions

Students preparing for careers in the health professions (medicine, dentistry, veterinary medicine, podiatric medicine, optometry) generally major in biology or chemistry, but may elect to major in any program provided they schedule the required minimum science and mathematics courses to support their applications. The courses specified by the Association of American Medical Colleges for Medical School applicants are generally applicable as minimal requirement for any of the health professions: They are:

Chemistry	12-16 sem. hrs.
Physics	8 sem. hrs.
Biology	8 sem. hrs.
Mathematics	0-6 sem. hrs.

Most professional schools will accept these as minimal preparation, but recommend additional courses. Students should be alert to the fact that professional schools are interested in demonstration of aptitude in science and mathematics, and the courses taken must be those normally rostered by majors in these areas, not courses offered for non-major election.

In the normal review process in these schools, the applicant's full undergraduate record is scrutinized. The strong liberal arts component in the La Salle curriculum will provide evidence of broad interest and rounded academic development. Evidence of leadership and active interest in associated activities will lend strong additional support to applications.

Normally the competition for placement in these programs results in high acceptance standards. Grade point averages ranging from 3.0 to 3.5 are representative of levels expected in these programs. Students are encouraged to consult with the health professions adviser concerning admissions criteria at various schools.

Preparation for Teaching

The teacher preparation program leads to eligibility for an Instructional I certificate to teach in the secondary schools of Pennsylvania and provides a foundation for those desiring to go on to further studies in the field. The Pennsylvania Department of Education has granted program approval in the preparation of teachers of biology, chemistry, English, French, German, Italian, Latin, mathematics, physics-mathematics, Spanish, special education, and comprehensive social studies. Students who satisfactorily complete the College's requirements in these areas and are recommended by the Teacher Certification Committee are issued teachers' certificates. Those planning to teach outside of Pennsylvania should familiarize themselves with certification requirements elsewhere.

The Education Departmental Board, consisting of faculty members from the education department, one faculty representative for each of the subject areas of teacher

preparation, and student representatives in the teacher preparation program makes final intradepartmental decisions on planning, conducting, and evaluating the teacher preparation program. A Teacher Placement Office on campus aids graduates in obtaining positions.

For additional information on the teacher preparation program, see pages 53 to 56.

TEACHER CERTIFICATION PROGRAMS AND ADVISERS:

(Teacher certification is obtainable only in these areas.)

English—Dr. Barbara Millard or Mr. Charles Kelly

Biology, Chemistry, Mathematics, Physics—

Brother Richard Hawley, Mrs. Helen Brady

Communications (Non-print media)—Brother Gerard Molyneaux

Comprehensive Social Studies—Mr. William Binkowski

French, German, Italian, Latin, Spanish—Dr. John McCann

Special Education of the Exceptional Child—Emotionally

Disturbed, Mentally Retarded, Physically Handicapped,

Learning Disabled, Brain Damaged—

Dr. Preston Feden

(Further details on the specific requirements in each of these areas are available in the education department office or from the appropriate adviser.)

Preparation for Law

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Law schools do not prescribe particular curricula for admissions. La Salle College, therefore, approaches the preparation for law on an individual basis, tailoring the program of each student to individual needs and desires. Thus, students may major in English, political science, history, etc., as preparation for law.

Any student considering law as a career, regardless of his major curriculum interest, is encouraged to seek early counseling with the pre-law adviser, Dr. Edward Domineske.

Preparation for Criminal Justice Professions

Students preparing for careers in criminal justice professions pursue a curriculum which combines liberal arts with intensive coursework in the behavioral and social sciences and specialized courses in criminal justice. A major in criminal justice qualifies the student for admission to graduate programs in criminal justice and prepares the student for entry-level positions in law enforcement, judicial administration, probation, parole and correctional administration.

Preparation for Social Work

The primary objective of the social work program is to prepare competent, generalist practitioners for entry-level positions in the social work profession. Building on a liberal arts foundation, a knowledge of basic social work theory is acquired. The student explores the psychological, social, economic and political phenomena that impact on people. There is a heavy emphasis on the development of skills needed to mobilize systems and resources for the enhancement of social and personal functioning. Educationally directed field placements during the junior and senior years integrate theory and practice. In supervised settings the student gains first-hand knowledge of how to work with people as individuals and as members of groups and communities.

A secondary objective of the program is to prepare students for graduate studies in social work and other human service professions. To this end, a firm theoretical base is laid to support advanced study.

Graduates of the program have developed careers in both public and voluntary agencies. They are in such fields as child welfare, family services, aging, community and public welfare. Many graduates choose to go on to graduate school either directly or after having gained work experience.

Students considering the social work major are encouraged to make this known to the Director of the Program for assistance in planning an academic course of study.

CURRICULUM

The curriculum for Arts and Sciences students is structured in four parts:

1. General Education—7 courses (21 credits)
2. Distribution Requirement—8 courses (24 credits)
3. Departmental Requirements for Majors—ordinarily not more than 15 courses (45 credits)
4. Free Electives—minimum of 10 courses (30 credits)

The General Education courses, which will normally be completed by the end of sophomore year, concern themselves with the basic skill of written communication and with such value-oriented subjects as literature, religion, and philosophy. Each of these departments offers several courses which can be chosen to fulfill the General Education Requirement.

The range of choice is further widened by the Distribution Requirement, which is to be fulfilled by the end of junior year. Courses offered under this requirement help provide some depth outside your major field and also offer a measure of flexibility so that you can shape your program in accord with your interests.

The number of courses each department requires of its majors will normally not exceed 15, leaving at least 10 courses to be used as free electives. Some departments require their majors to take courses outside their primary field. Students may present such courses in fulfillment of Distribution Requirements.

The College recommends that students planning graduate studies acquire a good background in languages, since most graduate schools require a knowledge of one or two foreign languages before granting higher degrees.

GENERAL EDUCATION REQUIREMENTS (To be completed by end of sophomore year)

English Composition	1 semester	(May be waived if writing competence is established.)
Literature	2 semesters	(English or foreign literature in English.)
Philosophy	2 semesters	
Religion	2 semesters	

DISTRIBUTION REQUIREMENTS (To be completed by end of junior year)

Two courses in four of the areas below, exclusive of courses in your major

Area I	Area II	Area III	Area IV	Area V
English	Foreign Languages ¹	Fine Arts	Economics	Biology
History	Mathematics	(Music or Art)	Pol. Science	Chemistry
		Philosophy	Sociology	Geology
		Religion	Psychology	Physics

General Education courses may not be taken to fulfill Distribution Requirements.

¹To satisfy Distribution Requirements with Foreign Languages, the student must take two courses in the same foreign language

MAJOR REQUIREMENTS

Requirements for majors in each department are listed along with that department's course descriptions, beginning on page 45 of this catalog.

FREE ELECTIVES

A student may choose to concentrate his free electives in a particular discipline to build a strong minor or may use these electives to diversify his background or broaden his interests. Free electives may be taken on a pass/fail basis. (See GRADES, page 34.)

MODEL ROSTER FOR MAJORS IN ARTS AND SOCIAL SCIENCES

FRESHMAN YEAR

Fall	Spring
Gen. Ed. Phil A	Gen. Ed. Rel.
Eng. Comp.	Dist. Req.
Gen. Ed. Lit.	Gen. Ed. Lit.
Major Course	Major Course
Dist. Req.	Dist. Req.

JUNIOR YEAR

Fall	Spring
Dist. Req.	Major Course
Major Course	Major Course
Major Course	Major Course
Elective	Elective
Elective	Elective

SOPHOMORE YEAR

Gen. Ed. Rel.	Gen. Ed. Phil. B
Dist. Req.	Dist. Req.
Dist. Req.	Dist. Req.
Major Course	Major Course
Elective	Elective

SENIOR YEAR

Major Course	Major Course
Major Course	Major Course
Major Course	Major Course
Elective	Elective
Elective	Elective

MODEL ROSTER FOR SCIENCE MAJORS

FRESHMAN YEAR

Comp	Dist. Req.
Gen. Ed. Rel.	Gen. Ed. Phil.
Gen. Ed. Lit.	Gen. Ed. Lit.
Major Course	Major Course
Mathematics	Mathematics

JUNIOR YEAR

Dist. Req.	Dist. Req.
Dist. Req.	Major Course
Major Course	Major Course
Major Course	Major Course
Elective	Elective

SOPHOMORE YEAR

Gen. Ed. Phil.	Gen. Ed. Rel.
Dist. Req.	Dist. Req.
Dist. Req.	Dist. Req.
Major Course	Major Course
Elective	Elective

SENIOR YEAR

Major Course	Major Course
Major Course	Major Course
Elective	Elective
Elective	Elective
Elective	Elective

The above rosters illustrate ways in which the General Education Requirements, Distribution Requirements, Major Courses, and Electives might be scheduled over the four years.

PROGRESS RECORD

This chart offers a convenient way of planning and recording your academic progress. If you fill it out at the end of each semester and take it with you when you meet with your adviser for pre-registration, you will be assured of meeting the courses and hours required for graduation.

GENERAL EDUCATION (7 courses)

- 1 Writing I _____
- 2 Literature _____
- 3 Literature _____
- 4 Religion _____
- 5 Religion _____
- 6 Philosophy A _____
- 7 Philosophy B _____

DISTRIBUTION REQUIREMENTS

(8 courses—2 each from 4 of the 5 areas)

Area 1 (Eng., Hist.)

- _____
- _____
- _____

Area 2: (Lang., Math.)

- _____
- _____
- _____

Area 3: (Fine Arts, Phil., Rel.)

- _____
- _____
- _____

Area 4 (Econ., Pol. Sci., Soc., Psy.)

- _____
- _____
- _____

Area 5: (Bio., Chem., Geo., Phys.)

- _____
- _____
- _____

MAJOR REQUIREMENTS (Fill in after consulting Course Descriptions for your major)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____

ELECTIVES (10 courses)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____



course descriptions

Key: (F)—Offered in fall term, (S)—Offered in spring term, (F, S)—Course may be rostered in either fall or spring term. The year is indicated if the course is offered in alternate years.
D—Indicates that course is recommended by department to non-majors as suitable to fulfill a Distribution Requirement. If there is doubt about whether a course will fulfill the Distribution Requirement, the student should consult with the Dean.

ART HISTORY

(See Fine Arts, page 62)

BIOLOGY*

BROTHER RICHARD HAWLEY, F.S.C., M.A., *Chairman*
Associate Professors: Belzer, Bogacz, Lowery, Muldoon
Assistant Professors: Hawley, Ksiazek, Mandelbaum, Mickle, Seitchik
Instructor: Benthin

Required for Major in Biology: 17 courses

- Biology 201, 407-408, and additional biology courses to total 33 hours. (Biology 202, 203, and 301 are recommended by the department; sequence may be decided by the student.)
- Chemistry 111-112, 201-202
- Mathematics 113-120 (Biology 314 may be substituted if Mathematics 120 is taken as first course.)
- Physics 105-106

Biology 151-152. D
ANATOMY AND PHYSIOLOGY 4-8 credits

A basic course in the structure and functioning of the human body with emphasis placed on the interrelationships of the major organ systems. Three hours lecture, two hours laboratory; two terms.

Biology 153. (F) D
THE ANIMAL KINGDOM FANTASY AND FACT 3 credits

For election in the distribution area by non-biology majors. A brief survey of the animal kingdom and its relationship to man. Consideration given to evolution, physiology, ecology, parasites, and genetics. Course incorporates lecture, visuals, and student investigations. One hour lecture, two hours lecture-laboratory.

Biology 154. (S) D
PLANTS FLOWERING AND NON-FLOWERING 3 credits

For election in the distribution area by non-biology majors. A survey of the structure and metabolism of seed and non-seed plants. Consideration given to evolution, ecology, hormones, and basic systematics. Course incorporates lecture, visuals, and student investigations. One hour lecture, two hours lecture-laboratory.

Biology 155. (F) D
LIFE BEFORE BIRTH 3 credits

For election in the distribution area for non-biology majors. Lecture, visuals, demonstrations, and student investigation will illustrate the sequential formation of the human body from production of the reproductive cells, through fertilization and organ formation, to birth. In addition, common developmental problems and their causes will be discussed. Three hours lecture, no laboratory.

*Non-majors planning to elect biology courses above the 100 level must secure the permission of the chairman. Biology 201 is a prerequisite for all courses above the 200 level

Biology 156. (S)
VARIATION IN MAN

D
 3 credits

For election in the distribution area for non-biology majors. General principles of genetic transmission and their application to man. Discussion of currently developing procedures for genetic control which might have an impact on man, and of existing problems stemming from genetic transmission and chromosomal abnormality. Lecture, visuals, demonstrations, and student investigation. Three hours lecture, no laboratory.

Biology 201. (F, S)
THE LIVING ORGANISM

4 credits

Integrated principles of modern biology; the attributes of life and hypotheses of its genesis; the continuity of life and its diversification; energy sources and the biological energy cycles; cells, organisms, and their structure and communities. *Required of all biology majors; normally taken as first major course; may be waived for advanced standing.* Prerequisite: General Chemistry. Three hours lecture, two hours laboratory.

Biology 202. (F, S)
THE INVERTEBRATES

4 credits

Life processes, phylogenetic advances, and basic classification of the major pre-Chordate phyla with emphasis on their evolution and ecology. Three hours lecture, two hours laboratory.

Biology 203. (F, S)
THE PLANT KINGDOM

4 credits

Functional anatomy, phylogeny, and basic systematics of non-vascular and vascular plants. Three hours lecture, two hours laboratory. Prerequisite: Biology 201.

Biology 251. (F, S)
CLINICAL MICROBIOLOGY

3 credits

The physical and chemical techniques available for the destruction of microbes; the prevention of microbial contamination; role of specific pathogens in the etiology of human disease processes; chemotherapeutic and antibiotic preparations available to assist the body mechanisms. Recommended for nurses. Two hours lecture, two hours laboratory.

Biology 301. (F, S)
THE VERTEBRATES

4 credits

Comparative systemic anatomy of the vertebrate classes; hypotheses of origin and radiation of the phylum Chordata. Laboratory dissections of representative Chordates from amphioxus to mammal. Two hours lecture, four hours laboratory.

Biology 303. (F, S)
MICROBIOLOGY

3 credits

A lecture-laboratory course concerned with the role of micro-organisms in nature and especially in human affairs. Two hours lecture, two hours laboratory; one term.

Biology 305. (F)
GENERAL PHYSIOLOGY

3 credits

Metabolic processes and associated physico-chemical phenomena of living organisms. Current hypotheses of muscle, endocrine, neural, respiratory, cardiovascular, and nutritional physiology. Prerequisite: Organic Chemistry. Two hours lecture, two hours laboratory.

Biology 306. (S)
NEUROMUSCULAR PHYSIOLOGY

3 credits

A physiological study of cardiac, skeletal, and smooth muscle and their relationship to the central and autonomic nervous systems. Two hours lecture, two hours laboratory.

Biology 308. (S)
MICROTECHNIQUE

3 credits

Histochemical and cytological techniques associated with the preparation of animal and plant materials for microscopic study. One hour lecture, four hours laboratory.

Biology 310. (S)**GENETICS**

3 credits

Mendel's laws of heredity as observed in plants and animals, the scope and method of modern genetics. Two hours lecture, two hours laboratory

Biology 312. (S)**RADIOBIOLOGY**

3 credits

Nuclear technology as applied to life sciences; theory, instrumentation, and use of radioactive isotopes in animals and plants. Two hours lecture, two hours laboratory.

Biology 314. (S)**BIOMATRICS**

3 credits

Analysis of experiments and research data in quantitative biology. Probability distributions, analysis of variance, rectilinear and curvilinear regression, and correlation. Three hours lecture, one hour laboratory

Biology 315. (S)**PLANT PHYSIOLOGY**

3 credits

Metabolic and physical processes of plants. Emphasis on photosynthesis, photorespiration, mineral nutrition, transpiration, phloem transport, intermediary metabolism, and hormonal activity. Prerequisite: Biology 201; recommended prerequisite: Biology 203. Two hours lecture, two hours laboratory. Offered in the spring semester of odd-numbered years.

Biology 316. (S)**PLANT ANATOMY**

3 credits

Structure of plant tissues and organs, particularly those of higher vascular plants. Emphasis on vegetative organs, but reproductive organs are discussed. Structure correlated with function and/or habitat. Prerequisite: Biology 201; recommended prerequisite: Biology 203. Two hours lecture, two hours laboratory. This course is offered in the spring semester of even-numbered years.

Biology 401. (F)**TAXONOMY OF THE ANGIOSPERMS**

3 credits

Angiosperm systematics, field collecting and identifications; herbarium and greenhouse practice. Phylogeny, characteristics, and importance of the leading families of flowering plants. Two hours lecture, two hours laboratory.

Biology 402. (F)**CELL BIOLOGY**

3 credits

Physical properties, chemical structure, and metabolism of simple and specialized cells; recent advances in the techniques of cell culture and investigation. Two hours lecture, two hours laboratory

Biology 403. (F)**PRINCIPLES OF ECOLOGY**

3 credits

Basic concepts of ecological theory; physical and biotic factors affecting the evolution, behavior, and community organization of organisms. Three hours lecture with field observations.

Biology 404. (S)**FIELD ECOLOGY**

3 credits

Project laboratory at La Salle Penlllyn Biostation; supervised student research projects in terrestrial and aquatic ecology. Prerequisite: Biology 403. Six hours laboratory and field work.

Biology 405. (F, S)**HISTOLOGY**

4 credits

The minute and ultra structure of mammalian primary tissues together with their functional relationships in the formation of major organ systems; histological basis of function is stressed. Two hours lecture, four hours laboratory.

Biology 406. (F, S)**EMBRYOLOGY**

3 credits

Fundamental processes underlying vertebrate development and differentiation; the frog, chick, and human form the basis of instruction. Two hours lecture, two hours laboratory.

Biology 407-408.**BIOLOGICAL CHEMISTRY**

4-8 credits

The principles of physical chemistry as they apply to biochemical reactions and the principal biochemical species and reaction sequences, the role of these reactions in specific biological functions. Laboratory application of techniques of analytical chemistry to analysis of biochemical reactivity. Three hours lecture, three hours laboratory; two terms.

Biology 470. (F, S)**SPECIAL TOPICS IN BIOLOGY**

3 credits

Presentation of review papers and discussions of assigned topics from main currents of biological research; participants to be recommended by department staff.

Biology 480-481. (F, S)**BIOLOGICAL RESEARCH**

2-4 credits

For election, particularly by qualified students contemplating postgraduate studies. Intended to provide actual research experience under staff supervision. Permission of chairman required. Hours to be arranged.

CHEMISTRYTHOMAS S. STRAUB, Ph.D., *Chairman**Professors: Barth, Demitras**Associate Professors: Straub, Tekel**Assistant Professor: Shalhoub**Lecturer: Polek*

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Required for Major in Chemistry: 15 courses

- Chemistry 111-112, 201-202, 301-302, 305, 401, 402, 403
- Mathematics 120, 221, 222. (It is strongly suggested that chemistry majors begin with Mathematics 120 as freshmen.)
- Physics 105-106. (Physics 211 is excellent preparation for Chemistry 301 and 302, but is not absolutely required.)
- The department suggests that all chemistry majors have at least 400 hours of lecture and 500 hours of laboratory work. Computer Science 150, 153 or a reading knowledge of a foreign language, some advanced work in chemistry (Chemistry 308 or 470 strongly recommended), and some research experience are recommended. This additional work may qualify a chemistry major for accreditation by the American Chemical Society. The chemistry program is accredited by the American Chemical Society.

Chemistry 111-112.**GENERAL CHEMISTRY**

4-8 credits

A general course based on physical principles; emphasis on elementary thermodynamics with applications to gases, solutions, heats of reaction, electrochemistry, ionic and non-ionic equilibria. Concepts of elementary quantum mechanics applied to spectral concepts and the theory of the chemical bond. Reaction kinetics applied to reaction mechanisms. Descriptive chemistry of the representative elements and transition metal complexes. Laboratory stresses the quantitative aspects of chemistry. Three hours lecture, three hours laboratory.

Chemistry 151. (F, S)**CHEMISTRY OF THE LIFE SCIENCES**D
4 credits

A terminal course for students who wish to obtain a general knowledge of chemistry with emphasis on the processes in the body and in nature. Descriptive and some quantitative principles discussed. Three hours lecture, three hours laboratory.

Chemistry 201-202.
ORGANIC CHEMISTRY

4-8 credits

Chemistry of carbon compounds with emphasis on structure, stereochemistry, synthesis and reaction mechanisms. Application in allied fields. Laboratory introduces techniques involved in organic synthesis, analysis, and study of reaction mechanisms. Intended for majors in chemistry, biology, and all students pursuing careers in the health professions. Prerequisites: Chemistry 111-112. Three hours lecture, three hours laboratory, two terms.

Chemistry 301-302.
PHYSICAL CHEMISTRY

4-8 credits

Elementary principles of physical chemistry discussed and illustrated by suitable laboratory experiments. The ideal gas, real gases, liquids, solids, elementary thermodynamics, thermochemistry, solutions, equilibria, kinetics, electromotive force, electrical conductivity, and chemical thermodynamics. Prerequisites: Chemistry 201-202, Mathematics 221-222. Three hours lecture, three hours laboratory; two terms.

Chemistry 305. (F)
QUANTITATIVE ANALYSIS

4 credits

Neutralization, oxidation-reduction, chemical equilibria, colorimetry, and the methods of quantitative chemical analysis. Thorough training in volumetric, gravimetric, and colorimetric techniques. Two hours lecture, six hours laboratory.

Chemistry 306. (S)
QUANTUM CHEMISTRY

2 credits

Quantum mechanics applied to the solution of some elementary systems. Discussion of chemical bonding. Introduction to elementary statistical mechanics using results derived from quantum mechanics. Prerequisites: Chemistry 301-302.

Chemistry 308. (S)
BIOCHEMISTRY

4 credits

The chemistry of carbohydrates, fats, proteins, vitamins, enzymes, and hormones; emphasis on their roles in biochemical processes. Laboratory work illustrates common techniques used to prepare, identify, and assay biochemical materials. Prerequisites: Chemistry 201-202, 301. Three hours lecture, three hours laboratory.

Chemistry 361. (F, S, Summer)
COOPERATIVE CHEMICAL EDUCATION

3 credits

A cooperative experience between the chemistry department and chemical industry to provide on-the-job training in fields relating to chemistry and industry. On approval of the chairman only.

Chemistry 401. (F)
QUALITATIVE ORGANIC ANALYSIS

4 credits

A study of the classifying reactions of organic compounds as exemplified by the analysis of compounds and mixtures in the laboratory. *Restricted to chemistry majors.* Prerequisites: Chemistry 201-202. Eight hours of laboratory per week and individual conferences.

Chemistry 402. (S)
ADVANCED QUANTITATIVE ANALYSIS

4 credits

Theory and practice of physical measuring instruments with particular attention to the use of the instruments. Modern trends in analytical chemistry. Prerequisite: Chemistry 305. Two hours lecture, six hours laboratory.

Chemistry 403. (F)
ADVANCED INORGANIC CHEMISTRY

3 credits

The vector model of the atom, theoretical aspects of chemical bonding, descriptive chemistry trends relative to the periodic table, molecular structure and symmetry of molecules, and general discussion of the transition metals and their complexions. Prerequisites: Chemistry 201-202, 301-302.

Chemistry 404. (S)**ADVANCED ORGANIC TOPICS**

3 credits

Designed to extend the knowledge of organic chemistry; emphasis on those topics not fully developed in the elementary course. An introduction to the literature of chemistry is also included. Prerequisites: Chemistry 201-202, 301. Three hours of lecture.

Chemistry 470. (F, S)**SPECIAL TOPICS**

3 credits

Courses in "Polymers and Polymer Coatings" and in "Chemical Marketing" are offered as Special Topics in the Evening Division and are open to day students.

Chemistry 480 and or 481. (F, S)**CHEMICAL RESEARCH**

4-8 credits

Individual laboratory or theoretical work under supervision of a staff member. *Restricted to chemistry majors.* Hours to be arranged.

COMMUNICATIONS

(See English, page 56)

COMPUTER SCIENCE

(See Mathematical Sciences, pages 86-88)

CRIMINAL JUSTICE

(See Sociology, pages 107-108)

ECONOMICS

JOSEPH P. MOONEY, Ph.D., *Chairman*
Professors: Ciesla, Flubacher, Kane, Mooney
Associate Professors: Duffy, Geruson, Grady
Assistant Professors: Cairo, Healy, Ratkus
Instructor: George

Required for Major in Economics: 14 courses

- Economics 101-102, 201, 203, 213, 214, 303, 304, 411, 412
- Mathematics 111-112
- Two courses in the social sciences (psychology, political science, or sociology).

Economics 101. (F)**INTRODUCTORY ECONOMICS I****D**

3 credits

A study of the operation of the economic system, including a comparison of capitalistic and socialistic economies and consideration of the influence of government policies on economic activity. Emphasis on the U.S. economy and factors which determine employment, inflation, gross national product, and the money supply. A prerequisite for other economics courses except Economics 320, 411, 412.

Economics 102. (S)**INTRODUCTORY ECONOMICS II****D**

3 credits

A continuation of Economics 101. Topics include: economic problems of the business firm; economic growth of society; urban problems associated with economic growth; economic approaches to ecological issues; international trade issues; economic problems of poor countries. Prerequisite: Economics 101

- Economics 201. (F)**
MONETARY ECONOMICS 3 credits
 A study of the monetary and financial system of the U.S. economy. Emphasis on the importance of the money supply, the demand for money, and interest rates, along with more recent developments in the study of monetary variables. Instruments of monetary policy discussed and evaluated in the context of contemporary economic theory, the position of the American financial system in the international financial network. Prerequisites: Economics 101, 102.
- Economics 202. (S)**
INTRODUCTION TO MATHEMATICAL ECONOMICS 4 credits
 Designed to acquaint the student with certain topics in algebra, analytic geometry, and calculus which are most useful in their application in micro- and macroeconomic analysis. Prerequisites: Economics 101, 102.
- Economics 203. (S)**
AMERICAN ECONOMIC HISTORY 3 credits
 History of the growth and development of the economic institutions of the United States from the Age of Discovery to the New Deal and their influences on political and social organizations. Prerequisites: Economics 101, 102.
- Economics 213. (F, S)**
ECONOMICS AND BUSINESS STATISTICS I 3 credits
 General introduction to the basic ideas and procedures of statistical analysis with special emphasis on their application to economics and business. Methods of statistical description, index numbers, and time series analyses. Introduction to statistical inference using the normal probability distribution. Prerequisites: Economics 101, 102.
- Economics 214. (S)**
ECONOMICS AND BUSINESS STATISTICS II 3 credits
 Foundations of statistical inference as applied to decision making on the basis of limited information. Basic concepts of probability, probability distributions, estimation and test of hypotheses, regression and correlation techniques. Prerequisite: Economics 213.
- Economics 301. (F, S)**
LABOR PROBLEMS IN AMERICA 3 credits
 Study of the sources of the union movement, its history, structure, and functions. Attention to the development of economics, political, and social power, as well as to the problems involved in the use of this power; management rights and management reaction to unions are also treated. Prerequisites: Economics 101, 102. Identical with Relations 301.
- Economics 302. (F, S)**
MANAGERIAL ECONOMICS 3 credits
 Forms of competitive behavior, uses of marginal cost analysis, pricing techniques, and profit and demand measurement and forecasting. The process of evaluating alternative business solutions and tentatively formulating policies. Prerequisites: Economics 101-102; Mathematics 111-112 and Quantitative Analysis 213. Both terms.
- Economics 303. (F)**
INTERMEDIATE MICRO THEORY I. PRICE THEORY 4 credits
 Theory of consumer behavior, production, and cost. Price determination of products in various market models and of factors of production. Welfare economics. Prerequisites: Economics 101, 102.
- Economics 304. (S)**
INTERMEDIATE MACRO THEORY II. THEORY OF EMPLOYMENT, GROWTH, AND FLUCTUATIONS 4 credits
 Theory of the level of income and employment. Theories of economic growth, traditional and modern. Theories of economic fluctuations, stabilization policies, and forecasting. Prerequisites: Economics 101, 102.

Economics Sociology Political Science 320. (F)**D****INTRODUCTION TO URBAN STUDIES****3 credits**

Interdisciplinary analysis of cities and urbanization. Examines comparative cause and effect patterns. Places the American experience in long run, world perspective. Stresses the post-1920 metropolitanization and how resultant urban problems interact with wider social and economic forces. Prerequisites: 6 hours of social science.

Economics Sociology Political Science 321. (S)**D****SEMINAR IN URBAN STUDIES****3 credits**

Analyzes social and economic policy decisions towards urban America since World War II. Urban finance, housing, crime, schooling, transportation, and selected other areas examined. Includes evaluation of limits, directions, and mix of government and private sectors. Prerequisites: 6 hours of social science.

Economics 404. (S)**PUBLIC FINANCE****3 credits**

An analysis of the revenue and expenditure activities of government with particular emphasis on the rationale of this government activity, the method of financing, and the effects of fiscal policy on allocation, distribution, efficiency, equity, and stability in the economy. Prerequisites: Economics 101, 102.

Economics 411. (F)**D****HISTORY OF ECONOMIC THOUGHT****3 credits**

A detailed study of the leading economic concepts and schools of economic thought from the mercantilists up to and including Alfred Marshall.

Economics 412. (S)**D****CONTEMPORARY ECONOMIC SYSTEMS****3 credits**

A continuation of Economics 411 until Keynesian economics has been treated; a history and analysis of socialist and Marxist thought culminating in a comparative study of the structure and function of the economies of the United States and the Soviet Union.

Economics Sociology Political Science 420-421.**FIELD SEMINAR SEMESTER IN URBAN STUDIES****15 credits**

Individualized field placements centered on a research project, evaluative seminars with instructors at the theoretical and practicum levels, and periodic integrative review conferences with faculty. Students must elect both courses in the spring of their senior year. Prerequisites: Economics Sociology/Political Science 320-321, three elected courses from those listed under Urban Studies Concentration, and permission of coordinator.

Economics 431. (F)**INTERNATIONAL ECONOMICS****3 credits**

An introduction to the theory of international exchange, to natural and policy barriers to trade, to relations between developed and developing countries, and to international disequilibrium. Stress on the evolution of the international monetary system and selected current problems such as balance of payments, exchange standards, liquidity, and the role of international institutions. Prerequisites: Economics 101, 102.

Economics 470. (S)**SPECIAL TOPICS****3 credits**

Concentration on a particular aspect of economic theory or economic issues. Topics will vary according to student interest and availability of faculty

Economics 480-481. (F, S)**SEMINAR****3-6 credits**

A study of methodology in economics and of the techniques of preparing research reports. Second semester includes readings, discussions, and presentation of individual research reports.

URBAN STUDIES CONCENTRATION

Coordinated by DR RICHARD T. GERUSON Economics Department

Designed as a minor for students wishing to focus their electives on urban questions

Required:

- Economics Sociology, Political Science 320, 321
- Economics Sociology, Political Science 420, 421 (Field Seminar Semester)
- Three of the following only with approval of coordinator:
- Sociology 207, 208, 212, 306, 308
- History 221, 233, 237
- Economics 203, 404
- Political Science 241, 247
- Education 330, 482
- English 302
- Psychology 364
- Humanities 300

EDUCATION

MARILYN LAMBERT, Ed.D., *Chairperson*
Associate Professors: Bangs, Binkowski, Clabaugh, Lambert
Assistant Professors: Feden, McCormick, Vernot
Lecturer: Vogel

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Required for Major in Education:

- Education 201, 203, 301, 470-471-472 or 475-476
- Psychology 101
- Courses designated for associated majors (See advisers listed on page 40.)

During freshman year, the student follows the program prescribed for the subject which he or she plans to teach. For secondary education majors, application for admission into the teacher preparation program is normally made during the second semester of freshman year. Admission requires approval of the Teacher Preparation Admissions Committee. (Forms are available in the education department office.) All candidates must take the Minnesota Teacher Attitude Inventory before and after the student teaching experience. The National Teacher Examinations are also required upon completion of the program. The Pennsylvania Instructional I Certificate is issued on the recommendation of La Salle College to an applicant who has obtained the baccalaureate degree and the approval of the department. During the last three years, the student follows the program designated by the area adviser and the chairperson of the education department.

Before being accepted for Education 470-471-472 (Professional Semester) or Education 475-476 (Professional Year), students must have an overall index of 2.0 and an index of 2.5 or better in the associated major (e.g., English, mathematics, special education) and all education course work. Students must also receive approval of both associated major and education department chairpersons.

Students not preparing for teaching may elect courses in education with the approval of the education department.

Education 201. (F, S)
THE SCHOOL: EDUCATION IN PHILOSOPHICAL AND CULTURAL PERSPECTIVE 3 credits
 Analysis of relationship between organizational structure and educational policies of American schooling and the socio-economic system of modern society.

Education 203. (F, S) **D**
THE CHILD: EDUCATIONAL PSYCHOLOGY 3 credits
 Study of psychological principles as they apply to the pupil and the learning process. Course requirements include participation in field experience. Prerequisite: Psychology 101.

Education 301. (F, S)
THE TEACHER. STUDY OF TEACHING 3 credits
 The study of teaching skills. Includes simulations, micro-teaching, interaction analysis. Prerequisites: field experience in education, Education 201, 203.

Education 302. (F, S)
AUDIO-VISUAL AIDS 3 credits
 Utilization of audio-visual materials in an instructional setting. Training in use of overhead transparencies, 35 mm color slides, audio tapes, drymounting techniques, multimedia presentations, etc. Student production of video tape programs utilizing the College's television studio.

Education 304. (F, S)
DEVELOPMENTAL READING 3 credits
 See page 55 for description. (Required of English Education and Special Education majors.) Prerequisite: Education 203.

Education 330. (F, S)
THE EDUCATION OF URBAN POPULATIONS 3 credits
 A multidisciplinary examination of the social, economic, political, and demographic aspects of urban populations as they affect formal education. Team taught. Identical with Political Science 330 and Sociology 330.

Education 470-471-472. (F, S)
THE PROFESSIONAL SEMESTER 15 credits
 Affords education majors specific and general preparation for student-teaching experiences. Comprises one full semester and embodies instruction in Special Methods of Teaching in various disciplines; direct application of educational media, methods, and materials to teaching; seminars in developmental reading, and ten to twelve weeks full-time assignment to classroom observation and teaching in selected secondary schools.

The Professional Semester requires the student to participate on a five day a week, full day schedule. Prerequisites: field experience in education, Education 201, 203, 301 and approval of associated major and education department chairpersons.

Education 482. (S)
AN INTRODUCTION TO GEOGRAPHY 3 credits
 The study of man's environmental systems from the viewpoint of spatial relationships and processes. (Required of social studies-education majors.) Offered in even-numbered years.

SPECIAL EDUCATION

La Salle College, in cooperation with the Pennsylvania Department of Education, has developed a program in special education leading to Instructional I certification in teaching the mentally and/or physically handicapped. (Mentally retarded, physically handicapped, emotionally disturbed, learning disabled, brain damaged.)

Students are expected to roster Education 201, Education 141, and Psychology 101 during the freshman year. All special education students must meet with a department faculty member during each preregistration period throughout the entire four-year program. This insures that all students are following the prescribed sequence of courses leading to a degree and to certification.

Required for Major in Special Education:

- Education 141, 201, 203, 241, 301, 304, 343, 344, 475-476
- Psychology 101 and two of the following: Psychology 203, 206, 315, 406, 408
- Biology 155

Education 141. (F, S)

INTRODUCTION TO EXCEPTIONAL CHILDREN

3 credits

The psychology and education of exceptional children and terminology related to the following exceptionalities: physically handicapped, mentally retarded, emotionally disturbed, learning disabled, speech handicapped, visually handicapped, auditorially handicapped, and gifted. Observations of special education programs and facilities will be required. (Open to special education majors and others with permission of the chairperson.)

Education 241. (F, S)

EARLY EXPERIENCE WITH EXCEPTIONAL CHILDREN

3 credits

Provides the prospective special education major with early exposure to exceptional children and professionals practicing in the field. Students spend the semester working four to six hours a week with a variety of exceptional persons. A two-hour seminar will be conducted each week on campus. Prerequisites: Education 141 and 203. Education 203 and 241 may be taken concurrently. (Special education majors only.)

Education 304. (F, S)

DEVELOPMENTAL READING

3 credits

A competency based experience to help students planning teaching careers recognize and deal with the various problems encountered in teaching reading. Emphasis on evaluation of and planning for the development of basic reading skills in children and adolescents. Field experience required. Prerequisite: Education 203.

Education 343. (F)

CURRICULUM ADJUSTMENT

3 credits

This course is broad in scope and content, and focus is on the students developing their own ideas about special education by understanding current issues, approaches to teaching exceptional children, and the relationship of theory to practice. Helps the students adjust the school curricula to the needs of exceptional children. Tutorial work with a child or children who exhibit learning problems is required. (Two hours a week.) Prerequisites: Education 141, 203, 241.

Education 344. (S)

DIAGNOSIS AND CORRECTION OF LEARNING PROBLEMS

3 credits

The student will learn about current theories of perceptual-motor, language, cognitive, academic, and social development. Based on this knowledge, students will assess a child's needs, plan and evaluate remedial programs based on the needs of children with learning problems. Tutorial work with a child or with children who exhibit learning problems is required. (Two hours a week.) Prerequisites: Education 141, 203, 241, 343.

Education 475-476. (F, S)

THE PROFESSIONAL YEAR

30 credits

Student involvement in three ten-week teaching experiences during the senior year. Encompasses working with children who have a variety of handicapping conditions. Weekly seminars on campus to facilitate modular instruction in teaching methods, supervision, feedback, and special workshops based on observed student needs. Prerequisites: 90 credit hours, 2.5 average in major requirements, and approval of the faculty.

Requirements for Major in Elementary Education:

La Salle College, in cooperation with Chestnut Hill College, offers a major in elementary education. An elementary education major requires 48 credits in professional education and curriculum courses. This includes two semesters of junior practicum, two semesters of senior seminar, and one semester of student teaching. Students interested in this program should consult the chairperson of the education department and the faculty of the Elementary Education

Program at Chestnut Hill College. The student is urged to request an interview with the elementary education faculty at CHC in the second semester of freshman year to arrange for the program to begin in sophomore year.

The Pennsylvania Instructional I Certificate is issued by the Commonwealth on the recommendation of Chestnut Hill College to an applicant who has been granted a baccalaureate degree and who has completed the approved teacher education curriculum.

ENGLISH

JOHN J. KEENAN, M.A., *Chairman*
 JAMES A. BUTLER, Ph.D., *Assistant Chairman*
Professors: Burke, Butler, Ellis, Fallon, Kelly, Koch
Associate Professors: Doran, Hannum, Keenan, Kleis, Lautz, Millard,
 Mollenhauer, Musil, Newton, Seydow, Sheekey, Thomton
Assistant Professors: Allen, Foote, Haberstroh, MacLeod,
 Molyneaux, Rao
Instructor: Goedkoop
Lecturers: Kling, Lyons, Meredith, Zenner

Required for Majors in English: 15 courses (Dual Majors: 10 courses)

English majors may choose one of several "majors within the major": (1) Liberal Arts; (2) Communication Arts; (3) English-Education; (4) Writing; (5) Dual Majors, e.g., English-Accounting, English-Biology, English-Psychology.

The usual requirements for each program are as follows: (Exceptions require the approval of the chairman or assistant chairman.)

- **Liberal Arts:** Two 200-level courses from Section Ia. One course from Ib. Two from IIa. One from IIb. Three from IIc. English 325 from IId. One 300- or 400-level course from Sections III or IV. Four English electives.
- **Communication Arts:** English 206, 256, 257, 258, 259, 353, 356, 357, 358, 403, 404. Four English electives.
- **English-Education:** English 103, 201, 202, 215, 221, 222, 225 or 325, 252 or 254, 300, 304, 341, 342, and one writing course beyond English 101. Education 201, 203, 301, 304, 470-472.
- **Writing:** English 103, 201 or 202, 205, 221, 222, 311 or 312 or 313, 325, 401 or 402. Four writing courses; three English electives.
- **Dual Major:** Individual program to be worked out in consultation with the chairman.

GENERAL EDUCATION

English 101. (F, S)

WRITING I

3 credits

Instruction and practice in explaining facts and ideas in an organized manner. Weekly themes.

Fall Semester

English 161. (F)

THE EXPERIENCE OF LITERATURE 3 credits

An examination of selected fiction, poetry, and drama, and the way in which the form of a work interacts with its content. Imaginative literature to encourage the student to read with increased taste, perception, and pleasure. Short critical papers.

English 164. (F)

WORKS OF MAJOR AUTHORS 3 credits

An introduction to the works of several major figures who, because of their timeless appeal, have continued to attract and excite readers through the centuries. Readings will include such figures as: Chaucer, Shakespeare, Milton, Swift, Keats, Austen, Melville, Eliot, Frost, Woolf, and Faulkner. Short critical papers.

Spring Semester

English 160. (S)**LITERATURE AND THE SEXES**

3 credits

Examines literature as a reflection of the different ways women and men are shaped by their society and of the ways they have related to each other in the private and public spheres. Short critical papers.

English 165. (S)**LITERATURE AND SOCIETY**

3 credits

Fiction, poetry, and drama considered as reflections of a particular social and political environment. The relationship between the art work and the intellectual and cultural background that produced it. Short critical papers.

English 166. (S)**AMERICAN DREAMS, AMERICAN NIGHTMARES**

3 credits

A study of the literary expression of the pioneer "dreams" of progress and freedom, and the "nightmares" they became in the face of war, poverty, discrimination, and industrial and technological revolutions. Readings include fiction, poetry, and drama. Short critical papers.

SECTION I: GENRE COURSES

Ia. INTRODUCTORY COURSES

English 103. (F, S)**INTRODUCTION TO SHORT FICTION**

D

3 credits

Reading, analysis, and discussion of short fiction.

English 201. (F, S)**INTRODUCTION TO POETRY**

D

3 credits

A study of the uses of language in English poetry—meter, metaphor, symbol, and other linguistic features—and of the major conventional forms of English poetry.

English 202. (F, S)**INTRODUCTION TO DRAMA**

D

3 credits

A survey of the development of the dramatic arts of comedy and tragedy from the ritual drama of Greece to the realism and naturalism of the 20th century.

Ib. CONTEMPORARY COURSES

English 311. (S)**CONTEMPORARY BRITISH AND AMERICAN NOVEL**

D

3 credits

Selected major novelists of the 20th century in England and America. Structure and trends.

English 312. (F)**READINGS IN MODERN DRAMA**

D

3 credits

Selected plays of the modern theatre from Ibsen to Ionesco and other contemporary dramatists.

English 313. (F)**CONTEMPORARY POETRY**

D

3 credits

An examination of representative 20th century poetic practice in English.

SECTION II: ENGLISH AND AMERICAN LITERATURE COURSES

Ila. ENGLISH SURVEY COURSES

English 221-222.**THE LITERATURE OF ENGLAND**

D

3-6 credits

Survey course in English literature showing development in types and forms. Fall: *Beowulf* to Blake. Spring: since 1800.

IIb. AMERICAN SURVEY COURSES

English 341. (F)

AMERICAN LITERATURE (to 1860)

3 credits

Literary historical movements of the period; major figures include Irving, Poe, Hawthorne, Melville, Emerson, Thoreau, and Whitman.

English 342. (S)

AMERICAN LITERATURE (1860-1900)

3 credits

Rise of realism; naturalism. Figures include Twain, Dickinson, Howells, James, Wharton, Crane, and Dreiser.

English 343. (F, S)

AMERICAN LITERATURE: 20th CENTURY

3 credits

Survey of developments in poetry, fiction, and criticism; figures include Hemingway, Fitzgerald, Faulkner, Frost, Eliot, Steinbeck, Porter, and selected contemporary writers.

IIc. ENGLISH PERIOD COURSES

English 322. (F)

CHAUCEER AND HIS WORLD

3 credits

Readings in *The Canterbury Tales*: short selections from medieval drama, romance, and allegory.

English 323. (S)

RENAISSANCE LITERATURE

3 credits

The intellectual, political, religious, and scientific ferment that accompanied the birth of Humanism and the death of Medieval order as expressed in the works of More, Machiavelli, Shakespeare, Donne, Bacon, and Milton.

English 326.

MILTON

3 credits

A study of Milton's poetry and related prose as they both mirror and transcend the values of his age. Emphasis on *Paradise Lost* both as the pinnacle of English epic poetry and as an effort to answer life's timeless questions.

English 327. (F)

ENGLISH LITERATURE OF THE RESTORATION AND 18th CENTURY

3 credits

The historical approach will include the chief figures: Dryden, Pope, Swift, Addison and Steele, Johnson, and their more outstanding contemporaries.

English 328. (F)

READINGS IN THE NOVEL TO 1900

3 credits

Historical development of the novel in English.

English 329.

ENGLISH LITERATURE OF THE ROMANTIC PERIOD

3 credits

An historical survey of the lyric and narrative poets Coleridge, Wordsworth, Byron, Shelley, Keats; their practice and theory. Pertinent references to their contemporaries.

English 330. (S)

ENGLISH LITERATURE OF THE VICTORIAN PERIOD

3 credits

The chief literary figures of the period—Tennyson, Arnold, Browning, Hopkins, Carlyle, Newman, Ruskin—and their contemporaries placed against their milieu. Lyric and essay stressed.

English 332. (S)

MODERN BRITISH LITERATURE

3 credits

Beginning with Shaw and Yeats and covering the major figures up to the present. Drama, fiction, poetry with some attention to the cultural, social, and artistic influences.

IIId SHAKESPEARE COURSES

English 225. (F, S) **D**
SHAKESPEARE'S ART AND TIMES 3 credits

Readings in Shakespeare's plays, emphasizing his success as a writer for the stage. Some consideration of the cultural background. A course designed with the non-English major in mind.

English 325. (F, S) **D**
SHAKESPEARE 3 credits

Intensive study of selected poems and plays including tragedies, comedies, and chronicles, exploring the dramatic, literary, and historical dimensions of his art.

SECTION III: LINGUISTICS COURSES

English 210. (S) **D**
LANGUAGE AND PREJUDICE 3 credits

A study of how language affects the way we view ourselves and others in our culture. Case studies of language in relation to sexism, racism, and politics, supplemented by introductory concepts of language systems and stylistic analysis.

English 301. (F) **D**
HISTORY OF THE ENGLISH LANGUAGE 3 credits

Development of modern English from Old and Middle English; dialects and dialect geography.

English 302. (F) **D**
INTRODUCTION TO LINGUISTICS 3 credits

Nature of language, methods of linguistic analysis. Social and cultural background of language.

English 304. (S) **D**
THE GRAMMARS OF ENGLISH 3 credits

History of the English language and introduction to modern linguistic systems (traditional, structural, transformational) as applicable to selected secondary school grammar texts.

SECTION IV: LITERARY CRITICISM COURSES

English 401. (S) **D**
LITERARY THEORY AND CRITICISM 3 credits

An introduction to the theory of literary structure and literary value; exercises in the description and evaluation of literary works; reports on assigned readings.

English 402. (F) **D**
HISTORY OF LITERARY CRITICISM 3 credits

Readings and discussion of major critical texts in historical setting. Short critical papers.

SPECIAL TOPICS COURSES

English 204. (F, S) **D**
WOMEN AND LITERATURE 3 credits

Examines the ways in which women have been represented in British and American literature, exploring the cultural and historical origins of those representations.

English 215. (S) **D**
ADOLESCENT LITERATURE 3 credits

Aimed at preparing prospective or actual teachers, librarians, and parents to direct the reading of adolescents. Some attention to myth, folklore, and the best in contemporary, popular, non-sexist, and minority literature for students at junior and senior high school level. Bibliographic aids.

- English 243. (F, S)**
RELIGIOUS ATTITUDES IN MODERN LITERATURE **D**
3 credits
Identical with Religion 243.
- English 250. (S)**
FUNDAMENTALS OF THEATRE PRACTICE I 3 credits
A lecture-laboratory course in stagecraft, lighting, and other skills associated with play production.
- English 251. (F)**
FUNDAMENTALS OF THEATRE PRACTICE II 3 credits
Combined theory and practice in acting and directing from monologue to scene work. Techniques of preparing the script, casting, and "blocking" the play and guiding the performer.
- English 252. (S)**
ORAL INTERPRETATION OF PROSE AND POETRY 3 credits
Theory and practice in the training of the speaking voice for the demands of reading aloud; graduated work in the preparation, interpretation, and public performance of literary and dramatic works.
- English 254. (F, S)**
ORAL COMMUNICATION 3 credits
Speech composition, audience psychology, and technique of delivery; emphasis on practical speaking experience.
- English 255. (S)**
THEATRE NOW **D**
3 credits
Study of genres and trends in contemporary theatre.

WRITING COURSES

- English 104. (F, S)**
EFFECTIVE WRITING 3 credits
A course for those who want additional instruction and experience in writing. Emphasis on writing that explains or persuades. Training in using the library to locate supporting evidence. Individual conferences. Prerequisite: English 101.
- English 205. (F, S)**
WRITING FOR RESULTS 3 credits
An exploratory course that permits students to discover and develop talent in various kinds of writing. Attention to resumés, business correspondence, and reports. Prerequisite: English 101.
- English 206. (F, S)**
FUNDAMENTALS OF JOURNALISM 3 credits
Communication theory, reporting and interviewing techniques, newswriting, copy editing and headline writing, the editorial, the feature story, newspaper makeup and design, libel, and the responsibility of the press. Two hours lecture, one hour of field assignment weekly.
- English 207-305-306. (F, S)**
CREATIVE WRITING I, II, & III 3 credits per term
Workshops in the writing of fiction and verse. Prerequisite for English 207: English 205 or permission of instructor. Prerequisite for English 305 or 306: permission of instructor.
- English 300.**
PROFESSIONAL SKILLS IN ENGLISH 3 credits
A course primarily in the teaching of writing which includes a review of the principles of spelling and grammar, literary terminology, and critical procedures. Practicum in writing instruction (or tutoring) required. Prerequisite: English 101 or equivalent.
- English 307.**
PLAYWRITING 3 credits
Study of the art of the playwright from the traditional and contemporary point of view. Guided writing of a one-act play.

English 308-309**PROFESSIONAL WRITING I & II**

3 6 credits

Emphasis on short non-fiction (articles, features, essays). Some attention to speech writing and general public relations writing. Prerequisite: English 205.

English 310.**SEMINAR IN EDITING AND PUBLISHING**

3 credits

Workshop approach to provide students with experience in judging manuscripts, editing copy, proofreading, typographical design, and production. Some field trips to printing and graphic arts centers. Guest lectures by practicing professionals.

COMMUNICATION ARTS COURSES

BROTHER GERARD MOLYNEAUX, F S C., Ph D., *Coordinator*

English 256. (F, S)**COMMUNICATION THEORY AND THE MEDIA**

3 credits

Through lectures, demonstrations, and laboratory experiences, students learn current theories of communication and improve their skills in communicating personally and through media. Group and individual analysis of the dynamics of communication processes.

English 257. (F, S)**INTRODUCTION TO MASS MEDIA**

3 credits

Investigation of newspapers, magazines, radio, television, and film as mass media. Influence of the medium on content. Internal and external efforts at regulation.

English 258. (F)**MEDIA DESIGN AND PRODUCTION**

3 credits

Analysis and production of visual communication through still photography, television, and film to develop skills in perception and composition of visual communication.

English 259. (F, S)**FILM AS ART**D
3 credits

A study of selected films and discussion of the artistic techniques involved.

English 353. (F, S)**WRITING FOR THE MEDIA**

3 credits

Development of writing techniques responsive to the demands of print and non-print media. Analysis of the writing styles found in documentary reporting, advertising, and entertainment formats of the media. Fall: news writing and advertising copy; spring: script writing. May be taken in Fall, Spring, or both.

English 356. (F, S)**TELEVISION PRODUCTION**

3 credits

Introduction to the planning, production, and editing methods of electronic communication. Includes pre-production scripting and participation in production of videotaped television shows.

English 357. (S)**BROADCASTING IN AMERICA**

3 credits

A study of the structure of broadcasting in America and of its interaction with society. Prerequisite: English 257

English 358. (F, S)**BROADCAST COMMERCIAL PRACTICES**

3 credits

A study of advertising and public relations within the broadcasting industry from concept and development through production and evaluation. Analysis of the specific dynamics: research, creativity, administration, economics. Lectures, group projects, laboratory experiences. Required of majors; open to others with permission of coordinator

English 403. (S)**COMMUNICATION SEMINAR: FILM**

3 credits

The motion picture as industry, as historical record, and as art. Among topics offered: documentary film, film comedy in America, film theory and criticism, film history, the great directors. Prerequisite: English 259 or permission of instructor

English 404. (F)**COMMUNICATION SEMINAR: RADIO AND TELEVISION**

3 credits

In depth studies of particular facets of radio and television such as, broadcast regulation, radio and television directing, satellite communication, the cable. Prerequisite: English 357 or permission of instructor.

English 461. (F, S)**FIELD SEMINAR IN MEDIA**

3 credits

Students will intern 10-14 hours weekly in media-related companies, studying under professional guidance the everyday practices in communications industries. Recommendation of chairman required.

FINE ARTS

GEORGE K. DIEHL, Ph.D., *Chairman*

Professor Diehl

Associate Professor White

Assistant Professors: Hanes, Ridington

Lecturers: Gundersheimer, Kram, Lang

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Required for Major in Art History: 13 courses

- Art 211-212, 311, 312, 313, 315, 411, 412, 470
- Any two studio courses. (Additional studio courses available at Chestnut Hill College.)
- Two art history electives

Students are advised to elect related courses in other disciplines that will be meaningful in enriching their concentration in art history. Those anticipating graduate work are also advised to select courses in German, French, Italian, Latin, and Greek as preparation for advanced studies. The art history major is to consider Art 211-212 as prerequisite for other art history courses.

ART**Art 101. (F, S)****ELEMENTS OF ART****D**

3 credits

Analysis of the elements of painting, sculpture, and architecture, application of principles to several major artists and to the major stylistic periods. Ideally suited to the general student as an introductory course.

ART HISTORY

For the general student, courses in art history do not carry prerequisites; however, the nature of their content will vary in degree of sophistication.

Art 204.**HISTORY OF ARCHITECTURE****D**

3 credits

Chronological study of the growth and development of the major architectural styles in Western Europe, their interrelation and the manner in which they reflect the social needs of the times.

Art 206.**PAINTING FROM DAVID TO VAN GOGH****D**

3 credits

Study of the stylistic changes and examination of the methods and subject-matter of pictorial representation from the end of the 18th century to the end of the 19th century.

- Art 207-208.** **D**
ORIENTAL ART 3-6 credits
 Development and growth of the visual arts in Asia from prehistoric times to the present. The movement of art styles across the Asian continent. Fall term: China, Korea, Japan Spring term: India, Sri Lanka, Southeast Asia
- Art 209.** **D**
AMERICAN ART 3 credits
 Chronological survey of the painting, sculpture, architecture, and the minor arts in America from colonial times to the present. Particular emphasis on monuments in the Philadelphia area with field trips to include the du Pont Winterthur Museum.
- Art 211-212. (F, S)** **D**
HISTORY OF ART 3-6 credits
 Chronological survey of the painting, sculpture, architecture, and minor arts of Western civilization. Determination and recognition of styles and stylistic development through concentrated study of the outstanding monuments of each epoch. Fall term: beginnings to 1500 Spring term: 1500 to present.
- Art 311.** **D**
ANCIENT ART 3 credits
 Study of selected early civilizations which contributed to the growth of western tradition in the arts. Concentrated study of the artistic development of the major Mediterranean cultures, terminating with the early Christian era of the fourth century.
- Art 312.** **D**
MEDIEVAL ART 3 credits
 Chronological study of the eastern and western aspects of Christian art from the late Imperial Roman period to the decline of the Gothic tradition in the 15th century.
- Art 313.** **D**
THE RENAISSANCE IN ITALY 3 credits
 A study of the civilization of the Renaissance with concentration on the architecture, painting, and sculpture of Italy between 1200 and 1550. Stress will be on the works of Giotto, Bramante, Michelangelo, Raphael, Leonardo da Vinci, and Titian.
- Art 314.** **D**
THE RENAISSANCE IN THE NORTH FROM VAN EYCK TO HOLBEIN 3 credits
 A study of 15th and 16th century art and architecture in the countries of Europe other than Italy. Starting with Northern manuscript illuminators working in Paris and ending with Northern mannerists, the course concentrates upon such artists as Jan van Eyck, Bosch, Dürer, and Holbein.
- Art 315. (F)** **D**
BAROQUE AND ROCOCO ART 3 credits
 A study of styles, trends, and major forces in the arts of Western Europe in the 17th and 18th centuries.
- Art 377. (S)** **D**
HISTORY OF GRAPHIC ART 3 credits
 Chronological examination of graphic art from its inception in the 15th century to the present. Examination of original prints from the resources of the La Salle Study Collection and the Philadelphia Museum of Art. Prerequisite: permission of instructor Written research project.
- Art 411.** **D**
NINETEENTH CENTURY ART 3 credits
 A study of the major artistic forces in selected European countries and their reaction to the Social and Industrial Revolutions. The course will include an investigation of the effect of these developments upon artistic forms in the United States

Art 412.
TWENTIETH CENTURY ART

D
3 credits

A tracing of the divergent influences upon contemporary art in Europe and America from the late 19th century beginnings to the immediate present.

Art 470.
RESEARCH TOPICS IN ART HISTORY

3 credits

Topics vary from semester to semester. Required of art history major and open to the qualified general student. Prerequisites: junior standing and permission of instructor.

Art 489.
INDEPENDENT STUDY

3 credits

Intensive study in a specific area under individual guidance. Open only to art history majors. Prerequisites: 3.00 average or better, recommendations of instructor, approval of department chairman.

STUDIO COURSES

Art 350. (F, S)
OIL PAINTING

3 credits

Introduction to basic techniques of painting, drawing, and perspective. Preparation of canvas and media. Exercises in indoor and outdoor painting. May be repeated for credit.

Art 352. (F, S)
PRINT MAKING

3 credits

Introduction to basic print processes. Relief and intaglio printing and lithography. May be repeated for credit.

MUSIC

Required for Major in Music: 12 courses

- In Music History: 203-204 and four additional courses from the Music History section.
- In Theory and Composition: 103-104, 314-315, 325, 413

Students are advised to elect related courses in other disciplines that will be meaningful in enriching their concentration in music. Those anticipating graduate work in musicology are also advised to elect courses in German, French, Italian, Latin and Greek as preparation for advanced studies.

The music major is expected to demonstrate a basic keyboard facility. It is desirable that such facility be achieved before entering the program or acquired through private study in the early stages of the program. Further, the music major is to adhere to the following establishment of prerequisites: Music 103-104 as prerequisite for other courses in theory and composition; Music 203-204 as prerequisite for other courses in music history. Students who feel qualified to take a placement examination in Music 103-104 may arrange to do so.

Music 101. (F, S)
THE ART OF LISTENING

D
3 credits

Designed to develop and refine musical perception and systematically to explore the fundamentals of music and their interrelationships. Includes historical overview. Ideally suited to the general student as an introductory course.

MUSIC HISTORY

For the general student, courses in music history do not carry prerequisites; however, the nature of their content will vary in degree of sophistication.

Music 102.
AMERICA'S MUSIC

D
3 credits

From Plymouth Rock to Woodstock—the cultivated and vernacular traditions in American music. New England psalmody, the Yankee tunesmiths, the camp meetings, minstrelsy, the rise of musical culture in the 19th century, the popular and classical music of the 20th century.

- Music 201** D
INTRODUCTION TO OPERA 3 credits
 Music for the operatic stage from its inception to the contemporary period. Concentrated study of selected works representing the stylistic and historical development of opera.
- Music 203-204 (F, S)** D
INTRODUCTION TO THE HISTORY OF MUSIC 3-6 credits
 After a brief introduction to the fundamentals of music, the course proceeds to a comprehensive survey of the principal styles of music in Western civilization. Fall term: from classical antiquity to 1750. Spring term: from 1750 to the present.
- Music 221** D
TOPICS IN THE HISTORY OF MUSIC 3 credits
 Subject matter will vary from semester to semester. Open to the general student and to the music major. May be repeated for credit.
- Music 311 (F)** D
MUSIC OF THE CLASSIC PERIOD 3 credits
 The development of the classical style in Western European music from the age of the rococo to the time of Beethoven, with special emphasis upon the contributions of Haydn and Mozart.
- Music 312 (S)** D
MUSIC OF THE ROMANTIC PERIOD 3 credits
 A study of 19th-century developments in music. The symphonic poem, art song, and music/drama. Expansion of instrumental technique; development of orchestral and chamber music forms; growth of nationalism.
- Music 313 (S)** D
MUSIC OF THE TWENTIETH CENTURY 3 credits
 The emergence of new developments in musical composition in the 20th century. Examination of techniques and styles from impressionism to electronic music.
- Music 411 (F)** D
MEDIEVAL AND EARLY RENAISSANCE MUSIC 3 credits
 The evolution of sacred and secular music from the early Christian church to about 1500. The development of polyphony from its beginning to the work of Josquin Desprez.
- Music 412 (S)** D
LATE RENAISSANCE AND BAROQUE MUSIC 3 credits
 An examination of musical developments from about 1500 to the time of Bach. The great periods of vocal music, the creation of new forms, and the development of dramatic and instrumental music.

THEORY and COMPOSITION

For the general student, courses in theory and composition do not carry prerequisites, however, the general student who has not had Music 103-104 is advised to use discretion in the selection of other theory and composition courses.

- Music 103-104 (F, S)** D
FUNDAMENTALS OF MUSIC THEORY 3-6 credits
 Introduction to the basic theoretical concepts of music: staff notation, calligraphy, scales, key signatures, intervals, chords, rhythm. Elementary ear training stressing the ability to take melodic and rhythmic dictation and to sing a simple melody at sight. No prior knowledge of music necessary.
- Music 211** D
TOPICS IN THE THEORY OF MUSIC 3 credits
 Subject matter will vary from semester to semester. Open to the general student and to the music major. May be repeated for credit.

Music 314-315. (F, S)
HARMONY

D
3-6 credits

Fall: Basic elements of harmony as found in tonal music: chord succession, voice leading, non-harmonic tones, figured bass. Spring: Stylistic analysis of representative works from the baroque through the romantic period, concentrating on the evolution of harmonic language. Creative work in imitation of each style studied. Open to the general student with permission of instructor.

Music 325.
ORCHESTRATION

3 credits

A study of the properties, capacities, and functions of orchestral instruments and voices. Analysis of scores and practices of orchestration.

Music 401.
ADVANCED THEORY AND COMPOSITION

3 credits

An examination of the theoretical foundations and principles of more complex musical structures. Analysis and practice. Open to qualified students with permission of instructor.

Music 413. (F)
COUNTERPOINT

3 credits

Principles and techniques of linear writing. Introduction to canon and fugue. Exercises in construction on progressive levels. Open to the general student with permission of instructor.

APPLIED MUSIC

Music 151.

1 credit

Available to the general student as well as the music major in accordance with the conditions stated below.

Students applying for academic credit for study of an instrument (limited to keyboard, classical guitar, and all instruments of the standard symphony orchestra) or voice must demonstrate the ability to undertake such study at least at an intermediate level. Arrangements to work with a teacher of the applicant's choice and the financial obligations for such study are the responsibility of the student. At the close of the semester in which the student is applying for credit, the teacher will submit a written report on the student's progress. The student will demonstrate his or her accomplishment in a proficiency performance arranged by the department and will be graded on a credit/no credit basis. Upon successful demonstration of achievement the student will receive one academic credit, which will count as elective credit and will not be counted toward the major. A permissible total of six credits will be allowed.

Students wishing to apply for applied music credit may register for Music 151 upon approval of the department.

FOREIGN LANGUAGES AND LITERATURES

BERNHARDT G. BLUMENTHAL, Ph.D., *Chairman*
Professors: Bemian, Blumenthal, Boudreau, Rudnytzky
Associate Professors: Brownstein, DiMarco, Mall, McCann,
Perlecky, Sapone
Assistant Professor: Morocco
Director of Language Laboratory: Ronald Fisher

Description of major programs follows; for dual majors, greater flexibility in individual programs can be arranged in consultation with departmental adviser.

CLASSICAL LANGUAGES

Required for Major in Classical Languages: 14 courses

- Ten courses in Latin
- Four courses in Greek

GREEK

Greek 101-102. **D**
ELEMENTARY GREEK 3-6 credits

An introductory study of forms and syntax; includes reading and translation exercises and frequent practice in prose composition.

Greek 201-202. **D**
INTERMEDIATE GREEK 3-6 credits

Review of elementary grammar; readings of selected prose and poetry.

Greek 301. (F, S) **D**
HOMER 3 credits

Selections from the *Iliad* or *Odyssey*. Study of the epic meter and style.

Greek 302. (F, S) **D**
LYRIC POETRY 3 credits

The lyric poets from Archilocus to Theocritus; analysis of the meters; special emphasis on Pindar's odes.

Greek 303. (F, S) **D**
THE NEW TESTAMENT 3 credits

Selected passages; special attention to the forms peculiar to New Testament Greek. May be repeated for credit.

Greek 402. (F, S) **D**
PLATO 3 credits

Selections from the writings of Plato with special attention to the syntax; Platonic philosophy and contemporary life in Athens.

Greek 403. (F, S) **D**
DRAMA 3 credits

Selections from the repertory of Greek comedy or tragedy; attention to the subsequent influence of this genre on world literature. May be repeated for credit.

LATIN

Latin 101-102. **D**
ELEMENTARY LATIN 3-6 credits

Thorough grounding in forms and vocabulary.

Latin 201-202. **D**
INTERMEDIATE READINGS 3-6 credits

Review of elementary grammar; readings of selected prose and poetry.

Latin 205. (F, S) **D**
PROSE COMPOSITION 3 credits

A study of Latin syntax, with practice in writing Latin of graded difficulty.

Latin 301. (F, S) **D**
CICERO 3 credits

The works to be read will depend on the interests of the class

Latin 302. (F, S) **D**
 LIVY AND ROMAN HISTORIOGRAPHY 3 credits
 Selected passages of Livy's *History of Rome*; study of Roman historical theory.

Latin 303. (F, S) **D**
 HORACE AND LATIN LYRIC POETRY 3 credits
 Study of the Horatian Ode; comparison with other Latin lyric poets.

Latin 304. (F, S) **D**
 LATIN POETRY 3 credits
 Selections from one or several of the Roman poets. Readings may be chosen from works of: Vergil, Catullus, Lucretius, Tibullus, Propertius, Martial, Ovid, Horace, Juvenal, and Persius. May be repeated for credit.

Latin 402. (F, S) **D**
 PATRISTIC LATIN 3 credits
 Selections from the principal Latin fathers. A brief survey of the field of patrology and its influence on the Christian way of life.

Latin 403. (F, S) **D**
 MEDIEVAL LATIN 3 credits
 Selections from the various writers from the fifth to the thirteenth centuries of the Christian era. A study of changes in Latin forms and syntax and in the meaning of words; relations of medieval Latin to the vernaculars.

Latin 404. (F, S) **D**
 ROMAN COMEDY 3 credits
 Selected plays of Plautus and Terence will be read.

Latin 405. (F, S) **D**
 LATIN INSCRIPTIONS 3 credits
 A study of Roman private life as illustrated by a wide variety of inscriptions. A survey will be made of the field of epigraphy and of modern techniques used.

RELATED STUDIES:

Classics 211. (F) **D**
 CLASSICAL MYTHOLOGY 3 credits
 A study of the legends of Greece and Rome: what they are, how they have survived, their value to us. The legend of Troy emphasized. Audio-visual presentations, discussions, and research. All readings in English.

Classics 212. (S) **D**
 CLASSICAL DRAMA 3 credits
 Greek and Roman tragedies and comedies in English translation discussed and interpreted in their historical and social environment and compared to modern and contemporary drama. No previous knowledge of Greek and Latin is required.

Classics 311. (F) **D**
 GREEK MASTERPIECES IN ENGLISH 3 credits
 Some significant works in Greek literature read in English translation and interpreted in terms of their original setting. Application made to contemporary problems. No knowledge of Greek required.

Classics 312. (S) **D**
 LATIN MASTERPIECES IN ENGLISH 3 credits
 The more important works in Latin literature read and discussed in terms of the history of the times. Their influence on later literature noted. No knowledge of Latin required.

Classics 401. (F, S)**HISTORY OF GREEK AND LATIN LANGUAGES**

3 credits

Latin and Greek traced from earliest stages to their transformation into the various daughter languages of the modern world (the Romance languages and modern Greek). Reading knowledge of Latin and Greek not required.

MODERN LANGUAGES**FRENCH**

Required for Major in French: 14 courses

- Ten French courses (two from 400 list)
- Four courses in second language

GENERAL EDUCATION**French 161. (F)****IDEALS AND IRONIES: MODERN FRENCH LITERATURE IN ENGLISH**

3 credits

The rise of modernism as seen through some of the major works of 19th-century French literature: Stendhal, Flaubert, Nerval, Baudelaire, Rimbaud, Mallarmé, Huysmans and Jarry. Texts in English. Short critical papers.

French 162. (S)**REVOLT AND REVOLUTION: CONTEMPORARY FRENCH LITERATURE IN ENGLISH**

3 credits

A study of man's attempt to deal with despair and inauthenticity in France during the 20th century as seen in some of the major works of the period. Apollinaire, Gide, Breton, Sartre, Beckett, Ionesco, Robbe-Grillet, and Michaux. Texts in English. Short critical papers.

French 101-102.**ELEMENTARY FRENCH**D
3-6 credits

A study of the phonetics and grammar of French with graded work in reading, oral practice, and composition. One required hour per week in the language laboratory.

French 201. (F)**INTERMEDIATE FRENCH**D
3 credits

A review of French grammar with exercises in composition and selected readings.

French 202. (S)**INTERMEDIATE READINGS**D
3 credits

Readings of medium difficulty selected as an introduction to the literature and civilization of France

French 301. (F)**STRUCTURE AND COMPOSITION**D
3 credits

Training in the use of idiomatic French and in the practical application of grammatical principles; intensive exercises in written expression and in the translation of standard English prose into French.

French 302. (S)**LANGUAGE AND STYLE**D
3 credits

Continuation of French 301 with mounting stress on refinement of phrase and stylistic development.

French 303-304. (F, S)**CONVERSATION**D
3-6 credits

Oral practice aimed at providing students with varied experiences in communicating in French while improving their pronunciation, intonation, and fluency.

French 311. (F)**SURVEY OF LITERATURE I**D
3 credits

Readings and discussions of selected literary works from the beginnings to 1800.

- French 312. (S)** **D**
SURVEY OF LITERATURE II 3 credits
 Readings and discussions of selected literary works from 1800 to the present.
- French 321. (F)** **D**
CIVILIZATION I 3 credits
 A survey of the political, social, intellectual, scientific, and artistic development of France from earliest times to 1870. Lectures and readings serve as a basis for class discussions in French.
- French 322. (S)** **D**
CIVILIZATION II 3 credits
 A survey of the political, economic, social, religious, and cultural structures of contemporary France. Lectures and readings serve as a basis for class discussions in French.
- French 401. (S)** **D**
OLD FRENCH LANGUAGE AND LITERATURE 3 credits
 The history of the formation of the French language, with special attention to the phonological and morphological development from Latin. Literary study, using texts in the original, of Alexis, Roland, Guigemar, Aucassin, Vergi, and the poetry of Villon.
- French 411. (F, S)** **D**
SIXTEENTH-CENTURY LITERATURE 3 credits
 Readings and reports on works of representative authors of the 16th century.
- French 425. (F, S)** **D**
CLASSICAL THEATRE 3 credits
 A study of the plays of Corneille, Moliere, and Racine.
- French 431. (F, S)** **D**
EIGHTEENTH-CENTURY LITERATURE 3 credits
 Readings and reports on works of representative authors of the 18th century.
- French 447. (F, S)** **D**
NINETEENTH-CENTURY NOVEL 3 credits
 A study of some of the major novels of the 19th century, including works by Constant, Stendhal, Balzac, Flaubert, Zola, and Huysmans.
- French 453. (F, S)** **D**
MODERN POETRY 3 credits
 A study of French poetry from Nerval and Baudelaire through the symbolists and surrealists to the present.
- French 455. (F, S)** **D**
MODERN THEATRE 3 credits
 A study of the plays of Claudel, Cocteau, Giraudoux, Anouilh, Montherlant, Sartre, Camus, Beckett, Ionesco, and Genet.
- French 457. (F, S)** **D**
MODERN NOVEL 3 credits
 A study of the novels of Proust, Gide, Bernanos, Malraux, Sartre, Camus, and Robbe-Grillet.
- French 480-481. (F, S)** **D**
SEMINAR 3-6 credits
 Topics of investigation vary from semester to semester.

GERMAN

Required for Major in German: 14 courses

- German 401, 431, 451, 480 or 481
- Six electives in German
- Four courses in second language

GENERAL EDUCATION

German 161. (F)

THE GERMAN MIND: MODERN GERMAN LITERATURE IN ENGLISH 3 credits

An introduction to selected works of prominent German writers of the classical and romantic ages. A composite view of the German mind of the 18th and 19th centuries. Readings from: Goethe, Schiller, Kleist, Büchner and Fontane. Texts in English. Short critical papers.

German 162. (S)

THE GERMAN DILEMMA: CONTEMPORARY GERMAN LITERATURE IN ENGLISH 3 credits

An introduction to the selected works of prominent German writers of the 20th century. A study of the authors' attempts to restore values to life and their search for authenticity. Readings from: Mann, Kafka, Rilke, Brecht, and Grass. Texts in English. Short critical papers.

German 101-102.

ELEMENTARY GERMAN

D
3-6 credits

An introductory study of the phonetics and grammar of the language including graded work in reading and composition. Weekly audio-oral laboratory assignments.

German 201. (F)

REVIEW GRAMMAR AND COMPOSITION

D
3 credits

Grammatical review, exercise in composition, and selected readings. Weekly audio-oral laboratory assignments.

German 202. (S)

INTERMEDIATE READINGS

D
3 credits

Selected readings of moderate difficulty from writers of the 18th, 19th, and 20th centuries with a view to introducing the student to the literature and civilization of the country.

German 209. (S)

TRANSLATION OF SCIENTIFIC AND TECHNICAL GERMAN

D
3 credits

Translation of selected scientific and technical articles from contemporary journals in biomedicine, chemistry, geology and physics. Emphasis on the practical aspects of translating; training in use of specialized dictionaries and reference sources. Texts selected by student in conjunction with adviser in major field.

German 301-302.

CONVERSATION AND COMPOSITION

D
3-6 credits

Oral practice for the development of skill in conversation. Special attention to remedial work in pronunciation and diction.

German 311-312.

THEMES IN GERMAN LITERATURE

D
3-6 credits

Major themes from medieval to modern times (love, death, suffering, political, and social involvement). Practice in conversation and composition. May be repeated for credit.

German 320. (F, S)

STUDIES IN GERMAN CULTURE

D
3 credits

Analysis of the contemporary culture of the two Germanies: life styles, national characteristics, folk tradition. Emphasis on the Germans' view of themselves, their view of their recent past. Focus varies from semester to semester. May be repeated for credit.

German 401. (F)

HISTORY OF THE GERMAN LANGUAGE

D
3 credits

The German language from its beginning to the present, particularly, the development of sounds, vocabulary, and the formation of standard High German.

German 402. (F, S)

TOPICS IN GERMANIC PHILOLOGY

D
3 credits

An introduction to older stages of German and selected Germanic languages through the examination of original texts. Texts vary from semester to semester (Old High German, Middle High German, Gothic). May be repeated for credit.

- German 403. (F, S)** **D**
 TOPICS IN GERMANIC MYTHOLOGY AND GERMAN FOLKLORE 3 credits
 Topics vary from semester to semester: Germanic Mythology—including religious cults and Eddic literature; German Folklore—including fairy tales and folk customs. May be repeated for credit.
- German 405. (S)** **D**
 MEDIEVAL LITERATURE 3 credits
 Study and discussion of German literature from its beginnings to the end of the medieval period.
- German 411. (F, S)** **D**
 LITERATURE OF THE 15th AND 16th CENTURIES 3 credits
 Study and discussion of the literature of the 15th and 16th centuries from the end of the medieval period to the beginnings of the baroque.
- German 421. (F, S)** **D**
 LITERATURE OF THE 17th AND 18th CENTURIES 3 credits
 Study and discussion of the literature of the 17th and 18th centuries excluding the works of Goethe and Schiller.
- German 431. (S)** **D**
 THE CLASSICAL AGE 3 credits
 Study and discussion of the literature of the classical age with special attention to the works of Goethe and Schiller.
- German 441. (F)** **D**
 LITERATURE OF THE 19th CENTURY 3 credits
 Study and discussion of the literature of romanticism, realism, and naturalism.
- German 451. (S)** **D**
 LITERATURE OF THE 20th CENTURY 3 credits
 Study and discussion of modern German literature from 1880 to the present.
- German 480-481.** **D**
 SEMINAR 3-6 credits
 Topics of investigation vary from semester to semester. Readings, reports, and discussion in a selected genre (novel, drama, lyric, short story). Seminar paper.

ITALIAN

Required for Major in Italian: 14 courses

- Italian 312, 451, 480 or 481 or 482
- Six electives in Italian
- Four courses in second language

- Italian 101-102.** **D**
 ELEMENTARY ITALIAN 3-6 credits
 An introductory study of the phonetics and grammar of the language including graded work in reading and composition. Intended for those who are beginning the study of Italian. One required hour per week in language laboratory.
- Italian 201. (F)** **D**
 REVIEW GRAMMAR AND COMPOSITION 3 credits
 Grammatical review, exercises in composition, and selected readings.
- Italian 202. (S)** **D**
 INTERMEDIATE READINGS 3 credits
 Selected readings of intermediate difficulty from writers of the 19th and 20th centuries with a view to introducing the student to the literature and civilization of the country

- Italian 301. (F)** **D**
ADVANCED GRAMMAR AND COMPOSITION 3 credits
 Training in the use of correct idiomatic Italian and in the practical application of grammatical principles, exercises in written expression and in translating standard English prose into Italian.
- Italian 302. (S)** **D**
STYLISTICS 3 credits
 Includes intensive oral exercises with a view towards improving the student's pronunciation and increasing his active vocabulary. Students make frequent use of audio aids.
- Italian 311. (F)** **D**
SURVEY OF ITALIAN LITERATURE I 3 credits
 Designed to provide a fundamental knowledge of Italian literature from its origins to the 16th century, with particular stress on Dante, Petrarca, and Boccaccio, and their contribution to Italian humanism and the Renaissance.
- Italian 312. (S)** **D**
SURVEY OF ITALIAN LITERATURE II 3 credits
 A comprehensive study of Italian literary currents from the "Marinismo" to D'Annunzio and Pirandello through neoclassicism, romanticism, and futurism, with comparative references to European literature.
- Italian 320. (F, S)** **D**
STUDIES IN ITALIAN CULTURE 3 credits
 Analysis of contemporary Italian culture: life styles, national characteristics, folk tradition. Emphasis on the Italians' view of themselves, their place in and contributions to contemporary European civilization. Focus varies from semester to semester. May be repeated for credit.
- Italian 331. (F)** **D**
READING LIST I 3 credits
 Gives an acquaintance with excerpts of Italian writers including the poets of the 12th and 13th centuries, such as Cino da Pistoia, Guido Guinizelli, Cielo D'Alcamo, Jacopo da Lentini, Guido Cavalcanti, Dante Alighieri, Francesco Petrarca, Angelo Polizano, Lorenzo de' Medici, and others.
- Italian 332. (S)** **D**
READING LIST II 3 credits
 Italian poems of knighthood, with particular emphasis on *L'Orlando Furioso* by Ludovico Ariosto and *La Gerusalemme Liberata* by Torquato Tasso; reference to the antecedents of this literary genre.
- Italian 401. (F, S)** **D**
HISTORY OF THE ITALIAN LANGUAGE 3 credits
 Deals with the Italian language in its origins in the 7th century up to modern times. By means of a very few philologic and glottologic rules, the student will acquire a knowledge of the origins and transformation of Italian from Vulgar Latin, in chronological progression.
- Italian 425. (F, S)** **D**
HISTORY OF THE ITALIAN THEATRE 3 credits
 A chronological survey on Italian theatre, from the religious medieval representations in the open to modern realistic drama. Special attention to Alfieri's tragedies and their influence on Italian "Risorgimento."
- Italian 451. (F, S)** **D**
MODERN AUTHORS 3 credits
 Includes a survey of Italian narrative and poetic production in the late 19th century and in the 20th century.

Italian 480. (F, S)

SEMINAR: DANTE

D

3 credits

A comprehensive study of Dante's *Divine Comedy*, viewed in its different aspects: an exciting adventure story, an exposition of the poet's political action and feelings, a love story, a compendium of history, science, and theology, and, finally, a program of political organization.

Italian 481. (F, S)

SEMINAR: LEOPARDI

D

3 credits

A study of the works of Leopardi including "Le Operette Morali," "I Canti," and "I Pensieri."

Italian 482. (F, S)

SEMINAR: MANZONI

D

3 credits

A comprehensive study of the author's major work and Italy's greatest novel, *I Promessi Sposi*; consideration of the author's two historic poems, "L'Adelchi" and "Il Conte di Carmagnola."

RUSSIAN

Required for Major in Russian: 14 courses

- Russian 301-302 or 303-304, 401-402; Slavic 403-404
- Four Russian electives
- Four courses in second language

Russian 101-102.

ELEMENTARY RUSSIAN

D

3-6 credits

A modified audio-lingual approach; regular exercises in language laboratory stress fundamental structural features of the contemporary spoken language.

Russian 201-202.

INTERMEDIATE RUSSIAN

D

3-6 credits

Second part of two-year program based on modified audio-lingual principles. Continued emphasis on language laboratory work. Introduction to literature and civilization. Translation of business correspondence and readings in general science.

Russian 301. (F)

ADVANCED GRAMMAR AND CONVERSATION

D

3 credits

Advanced grammar exercises and conversation. Reading of a Russian newspaper.

Russian 302. (S)

SCIENTIFIC RUSSIAN

D

3 credits

Theory and practice in translating scientific texts. Selected readings in chemistry, physics, mathematics, geology, anatomy, and astronomy.

Russian 303. (F)

ADVANCED READINGS AND COMPOSITION

D

3 credits

Selected readings of 19th and 20th century Russian prose and verse. Intensive exercises in translating standard English prose into Russian.

Russian 304. (S)

TRANSLATION OF SCIENTIFIC AND TECHNICAL RUSSIAN

D

3 credits

Translation of selected scientific and technical articles from contemporary journals in mathematics, bio-medicine, chemistry, geology, and physics. Texts selected by student in conjunction with adviser in major field.

Russian 401. (F)

HISTORY OF THE RUSSIAN LANGUAGE

D

3 credits

Historical background for an understanding of the phonology, morphology, syntax, and vocabulary of modern Russian.

Russian 402. (S) **D**
 OLD RUS' LITERATURE 3 credits
 Selected readings from the epic, annalistic, and hagiographic literature from the 11th to the 17th centuries with special emphasis on *Igor Tale* and the *Primary*, *Kievan*, and *Galician-Volynian* chronicles. The beginnings of fiction.

Russian 441-442. **D**
 RUSSIAN LITERATURE OF THE 19th CENTURY 3-6 credits
 Romanticism and realism in Russian literature. Readings from Pushkin, Griboedov, Lermontov, Gogol, Turgenev, Ostrovsky, Dostoevsky, L. Tolstoy, Saltykov-Shchedrin, Leskov, Chekhov, Kuprin, Bunin, and Andreev.

Russian 445-446. **D**
 SOVIET LITERATURE 3-6 credits
 Socialist realism as a doctrine of art and literature in the Soviet Union. Readings from Gorky, Mayakovsky, Babel, Olesha, Leonov, Zamyatin, Zoshchenko, Sholokhov, Ilf and Petrov, Simonov, Pasternak, Yevtushenko, Solzhenitsyn, and others.

RELATED STUDIES:

Slavic 403. (F) **D**
 UKRAINIAN 3 credits
 The study of the phonology, morphology, syntax, and vocabulary of a second Eastern Slavic language, Ukrainian, by noting the differences that exist between it and Russian.

Slavic 404. (S) **D**
 POLISH 3 credits
 The study of the phonology, morphology, syntax, and vocabulary of a Western Slavic language, Polish, by noting the differences that exist between Polish, Russian, and Ukrainian.

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SPANISH

Required for Major in Spanish: 14 courses

- Spanish 311-312
- Eight Spanish electives (two from 400 list)
- Four courses in second language

GENERAL EDUCATION

<p>Spanish 161. (F) REALITY VS. ILLUSION: HISPANIC LITERATURE IN ENGLISH 3 credits Varying facets of a persistent theme of human existence evolve in readings from <i>Lazarillo</i>, and <i>Don Quixote</i>, and selections by Calderon, Cortazar, Borges, and Cela. Texts in English. Short critical papers.</p>	<p>Spanish 162. (S) LIFE AND DEATH, HISPANIC LITERATURE IN ENGLISH 3 credits A persistent theme of existentialism is revealed in <i>Celestina</i> and selections by Unamuno, Lorca, Ortega, Fuentes, and Neruda. Texts in English. Short critical papers.</p>
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Spanish 101-102. **D**
 ELEMENTARY SPANISH 3-6 credits
 Designed to provide a fundamental capacity in conversation; audio-oral method employed. Grammar is presented strictly on a functional basis to facilitate speech and comprehension. One required hour per week in the language laboratory.

Spanish 201. (F) **D**
 REVIEW GRAMMAR AND COMPOSITION 3 credits
 Grammatical review, exercises in composition, and selected readings. One required hour per week in the language laboratory.

- Spanish 202. (S)** **D**
INTERMEDIATE READINGS 3 credits
 Selected readings of intermediate difficulty from writers of the 19th and 20th centuries with a view to introducing the student to the literature and civilization of the country. One required hour per week in the language laboratory.
- Spanish 301-302.** **D**
ADVANCED CONVERSATION AND COMPOSITION 3-6 credits
 Includes intensive oral and written exercises with a view towards improving the student's speaking and writing skills. Students make frequent use of audio aids.
- Spanish 307. (F, S)** **D**
COMMERCIAL SPANISH 3 credits
 Intended to acquaint the student with commercial Spanish terminology combined with lectures, readings, and translations of business letters. Introduction of new vocabulary used in the business world with emphasis on Spanish American idiomatic expressions.
- Spanish 311. (F)** **D**
SURVEY OF SPANISH LITERATURE I 3 credits
 An introduction to the study of Spanish literature which combines reading and discussion of the earliest works from the Middle Ages to the masters of drama of the Golden Age.
- Spanish 312. (S)** **D**
SURVEY OF SPANISH LITERATURE II 3 credits
 A course in readings and discussions of the authors from the 18th century to the contemporary period, including the neoclassic and romantic eras, and the modern novelists and poets.
- Spanish 313. (F, S)** **D**
SURVEY OF SPANISH AMERICAN LITERATURE 3 credits
 Reading and discussion of works from the colonial period to the 20th century, with special emphasis upon contemporary Latin American literature.
- Spanish 321. (F)** **D**
SURVEY OF SPANISH CIVILIZATION 3 credits
 A cultural and historic study of Spain's past, examining the effects of Rome and Islam, the period of Spanish domination and later decline, and the status of present-day Spain.
- Spanish 322. (S)** **D**
SURVEY OF SPANISH AMERICAN CIVILIZATION 3 credits
 A cultural and historic presentation of the diversity of Latin America from the Aztecs and Incas to the Conquest, the viceregalities, and the establishment of independent nations; course concludes with a thorough study of today's Latin America.
- Spanish-Education 350. (F)** **D**
SPANISH FOR EDUCATORS AND OTHER PROFESSIONALS 3 credits
 Designed to increase the Spanish language skills of teachers, law enforcement officers, and social workers in bilingual settings. Special emphasis on the vocabulary of each profession. Cultural survey of present-day problems in Puerto Rico and other Caribbean countries. Guest presentations and field visits to bilingual schools and centers.
- Spanish-Education 351. (S)** **D**
METHODS AND TECHNIQUES IN TEACHING BILINGUAL EDUCATION 3 credits
 Linguistic and cultural problems in the teaching of a second language. A basic knowledge of Spanish assumed. Emphasis on materials, techniques, and attitudes of teachers and students.
- Spanish 401. (F)** **D**
HISTORY OF THE SPANISH LANGUAGE 3 credits
 Study of the formation of the language, its evolution and phonetic changes from Latin to the present modern pronunciations. Reading and discussion of the early Spanish texts and the development of the language in the early period.

- Spanish 405. (F, S)** **D**
 LITERATURE OF THE MIDDLE AGES 3 credits
 Emphasis is placed on such works as *Cantar de Mio Cid*, *Poema de Fernan Gonzalez*, and *Amadis de Gaula*; authors include Berceo, Alfonso X, Juan Manuel, Juan Ruiz, Marques de Santillana, and los Manrique.
- Spanish 411. (F, S)** **D**
 RENAISSANCE LITERATURE 3 credits
 The works of Boscan, Garcilaso, Encina, Nebrija, Torres Naharro, and Lope de Rueda, and such works as *Tirant lo Blanc*, *Celestina*, and *Lazarillo de Tormes* form the basis of this period of literary activity.
- Spanish 415. (F, S)** **D**
 DRAMA OF THE GOLDEN AGE 3 credits
 Readings, reports, and discussions of the principal dramatists of the Golden Age: Lope de Vega, Tirso de Molina, Calderon, Alarcon, and others.
- Spanish 419. (F, S)** **D**
 READING LIST: CERVANTES 3 credits
 Readings and discussions of *Don Quixote*. Other important works by Cervantes also discussed.
- Spanish 442. (F, S)** **D**
 ROMANTICISM 3 credits
 A study of the early 19th century which analyzes works of such authors and poets as Larra, Duque de Rivas, Zorrilla, Espronceda, Garcia Gutierrez, Hartzenbusch, and Becquer.
- Spanish 443. (F, S)** **D**
 POETRY OF THE 19th AND 20th CENTURIES 3 credits
 Works by Gabriel y Galan, de Castro, Dario, los Machado, Jimenez, Lorca, Guillen, Otero, and Salinas are considered.
- Spanish 448. (F, S)** **D**
 THE SPANISH AMERICAN NOVEL 3 credits
 Readings and discussions on the sociological and the literary aspects of the leading Spanish American authors with emphasis upon the contemporary novel of Mexico, Argentina, and Colombia.
- Spanish 457. (F, S)** **D**
 THE SPANISH NOVEL OF THE 19th AND 20th CENTURIES 3 credits
 Reading and discussion of Spanish authors, their ideology and philosophies: Fernan Caballero, Galdos, Valera, Pio Baroja, Ala, Cela, Delibes, and Goytisolo.
- Spanish 480. (F, S)** **D**
 SEMINAR 3 credits
 Topics of investigation vary from semester to semester.

COMPARATIVE LITERATURE

- Comparative Literature 101. (F)**
 SURVEY OF WESTERN LITERATURE I 3 credits
 Lectures on masterpieces of western literature from its beginnings to the end of the classical period. Course investigates the western author's attempt to establish a consistent world view and the emergence of specific literary forms: the epic, the narrative, the drama. Discussion of comparative aspects of English, French, German, Italian, Russian, and Spanish literatures. Team-taught.
- Comparative Literature 103. (S)**
 SURVEY OF WESTERN LITERATURE II 3 credits
 Lectures on masterpieces of western literature from the end of the classical period to the present day. Course investigates relationship of the modern author to reality and the transformations in his world view and in specific literary forms. Discussion of comparative aspects of English, French, German, Italian, Russian, and Spanish literatures. Team-taught.

GEOLOGY

H. A. BART, Ph.D., *Chairman*

Associate Professor: Bart

Assistant Professor: Hoersch

Required for Major in Geology: 15 courses

- Geology 101, 102, 202, 203, 204, 205, 302, 303, 401, plus three elective geology courses.
- Chemistry 111-112. Mathematics 113.
- Suggested courses: Students anticipating graduate work in geology or closely related areas are advised to elect courses in basic sciences, mathematics, Russian, German, or French.

Geology 101. (F)

PHYSICAL GEOLOGY

D
3 credits

An introduction to the various physical processes that constantly change the interior and the surface of the earth, including weathering, earthquakes, volcanoes, glaciation, marine erosion, and mountain building. Two hours lecture, two hours laboratory and field trips.

Geology 102. (S)

HISTORICAL GEOLOGY

D
3 credits

An introduction to the evolutionary physical and biological processes that have modified the earth through geologic time. Two hours lecture, two hours laboratory and field trips.

Geology 103-104. (F, S)

DESCRIPTIVE ASTRONOMY I & II

D
3-6 credits

The celestial sphere and its coordinates; the telescope and other astronomical instruments, time and the calendar; the solar system; the stars—their distances, motion, spectra, luminosity, and development; binary and multiple star systems, nebula; and the external galaxies. Geology 103 is not a prerequisite for Geology 104.

Geology 105. (S)

PHYSICAL OCEANOGRAPHY

D
3 credits

A study of physical oceanography with emphasis on tides, currents, waves, chemistry of sea water, and geology of ocean basins. Three hours lecture.

Geology 201. (S)

GEOMORPHOLOGY

3 credits

A study of the genesis, formation, and characteristics of land forms. Laboratory exercises include an interpretation of land forms for topographic maps and aerial photographs. Two hours lecture, two hours laboratory.

Geology 202. (F)

MINERALOGY AND CRYSTALLOGRAPHY

4 credits

The identification of minerals using physical characteristics. An introduction to crystal chemistry and symmetry. Three hours lecture, two hours laboratory. Prerequisites: Geology 101, 102.

Geology 203. (S)

OPTICAL MINERALOGY

4 credits

An introduction to the theory of light transmission in crystals. Use is made of the polarizing microscope to study light phenomena in minerals. Lab is concerned with identification of minerals using thin section and oil immersion techniques. Two hours lecture, four hours laboratory. Prerequisite: Geology 202.

Geology 204. (S)

PETROLOGY

4 credits

Descriptive classifications of textures and processes of igneous, metamorphic, and sedimentary rocks with emphasis on hand specimen identification. Three hours lecture, three hours laboratory. Prerequisite: Geology 202.

- Geology 205. (F)**
PALEONTOLOGY 3 credits
A review of the invertebrate and vertebrate fossil record. Correlation of biological development with the stratigraphic record. Includes recent advances in paleoecology. Two hours lecture, two hours laboratory.
- Geology 301. (S)**
STRATIGRAPHY 3 credits
An introduction to physical stratigraphy, methods of correlation of rock and time rock units; the interpretation of paleogeography. Two hours lecture, two hours laboratory.
- Geology 302. (F)**
SEDIMENTOLOGY 4 credits
Analysis and interpretation of sedimentary processes; classification and analysis of the common sedimentary rocks. Three hours lecture, three hours laboratory.
- Geology 303. (F)**
STRUCTURAL GEOLOGY 3 credits
Description and mechanics of structural features such as: folds, joints, faults, lineations and foliations features. Laboratory is concerned with problem solving using geometric and stereographic techniques, cross-sections, and the examination of tectonic forces that cause deformation. Three hours lecture, one hour laboratory. Prerequisites: Mathematics 113, Geology 101-102.
- Geology 304. (S)**
GLOBAL TECTONICS 3 credits
A review of the literature on the theory of plate movement and study of the dynamic earth system with implications as to the origins of magma, earthquakes, and sea-floor spreading. Three hours lecture, one hour laboratory.
- Geology 305. (S)**
GEOCHEMISTRY 4 credits
Discussions of the geochemical behavior of the elements comprising the earth. A look at the chemical processes involved with weathering, oxidation, and the crystal chemistry of solids with application to the formation of stable compounds (phase theory). Three hours lecture. Prerequisites: Chemistry 111-112; Geology 101, 102, 202.
- Geology 401. (F)**
IGNEOUS PETROLOGY 4 credits
Classification, examination, and analysis of igneous rocks. Petrographic analysis of rock suites in thin section will be used to determine the cooling histories of the rocks. Three hours lecture, three hours laboratory, field trips. Prerequisites: Geology 202, 203, 204.
- Geology 402. (S)**
METAMORPHIC PETROLOGY 4 credits
A review of the metamorphic facies concept with a look at the physical, thermodynamic, and geochemical processes concerned with mineral recrystallization. Detailed thin-section examination of the various metamorphic zones. Three hours lecture, three hours laboratory, field trips. Prerequisites: Geology 202, 203, 204; Chemistry 111, 112.
- Geology 403. (S)**
ECONOMIC GEOLOGY 3 credits
The study of ore deposits associated with igneous, metamorphic, and sedimentary rocks. Emphasis on classical ore deposits. A survey of the various origins for metallic and non-metallic deposits. Three hours lecture. Prerequisites: Geology 202, 204; Chemistry 111, 112.
- Geology 470. (F)**
TOPICS IN ADVANCED GEOLOGY 3 credits
Selected topics dealing with contemporary developments in geology.

Geology 480. (F, S)

RESEARCH

1-4 credits

Supervised research in geology. Can be elected in fall, spring, or summer. Permission of chairman required.

HISTORY

JOHN P. ROSSI, Ph.D., *Chairman*

Professors: O'Grady, Rossi, Weinstein

Associate Professors: Cziraky, Fair, Hennessy, Labunka, McCarthy, Stow

Lecturer: Lukacs

Required for Major in History: 14 courses

- Three from each section, plus a two-semester seminar.

SECTION I: FOUNDATION COURSES

Designed to provide a broad overview of the past. Viewed as basic foundation courses for all students interested in the past.

History 111.

HISTORY OF WESTERN CIVILIZATION TO 1500

D
3 credits

A survey of cultural achievements of ancient civilizations of the Mediterranean basin, as well as of the medieval Europe which became part of the heritage of Western or European civilization.

History 112.

HISTORY OF WESTERN CIVILIZATION SINCE 1500

D
3 credits

A survey of European history from Renaissance to modern times. Development of national states and other modern institutions in Europe discussed. Socio-economic changes within the European society considered as a background.

History 113-114.

AN INTRODUCTION TO THE AFRO-ASIAN WORLDS, I & II

D
3-6 credits

An examination of the social, economic, political, and cultural institution of Asia, the Moslem world, tropical Africa, and South Africa.

History 115.

HISTORY OF THE UNITED STATES TO 1865

D
3 credits

A survey of the American people from colonial days to the Civil War.

History 116.

HISTORY OF THE UNITED STATES SINCE 1865

D
3 credits

A survey of the American people with particular emphasis upon industrialization, social change, and the growth of the nation as a world power.

SECTION II: CHRONOLOGICAL SURVEYS

Designed to provide a detailed examination of a more limited historical period.

History 131.

LATIN AMERICA: THE COLONIAL PERIOD

D
3 credits

A survey that treats the Inca, Aztec, and Maya cultures, African influences as well as Spanish and Portuguese contributions to the development of Latin America.

History 132. REVOLUTION AND SOCIAL CHANGE IN LATIN AMERICA	D 3 credits
Revolutionary movements in Latin America from Independence to the present with special emphasis on Castro, Allende, Peron, Zapata, Vargas, and the military dictators.	
History 135. THE ANCIENT NEAR EAST	D 3 credits
A survey that stresses the development of Greek civilization until the death of Alexander the Great.	
History 136. THE HELLENISTIC AND ROMAN WORLDS	D 3 credits
A survey that places a special emphasis upon the Roman Republic and the Empire until 476 A.D.	
History 138. THE EARLY MIDDLE AGES	D 3 credits
A study of the period from 284 A.D. until c. 1000 A.D., emphasizing the synthesis of Roman, Christian, and barbarian cultures.	
History 139. THE LATER MIDDLE AGES	D 3 credits
A study of the period from c. 1000 A.D. until the Renaissance, focusing on the social, economic, intellectual, and political revival of Europe.	
History 141. MODERN EUROPE TO 1870: THE AGE OF REVOLUTIONS	D 3 credits
A survey of Europe centered on the political and social development in Germany and France and the impact of Russia's rise to world power.	
History 142. MODERN EUROPE SINCE 1870: THE AGE OF VIOLENCE	D 3 credits
A detailed survey of Europe in the last hundred years.	
History 144. TOPICS IN AFRICAN HISTORY	D 3 credits
An account of the empires, tribes, and development of Africa from earliest times to the present.	
History 146. EAST ASIA IN THE MODERN WORLD	D 3 credits
Changes in Modern Asia as a result of the rise of industrialism, urbanism, nationalism, and western influence.	

SECTION III: TOPICS COURSES

Special in-depth analysis of limited themes and topics.

History 224. HISTORY OF PHILADELPHIA	D 3 credits
The historical development of Philadelphia from colonial times to the present, emphasizing the way people lived, the impact of transportation upon city growth, and the changing nature of industrialization. Lectures combined with field trips. Cost of field trips requires an additional fee of \$40.00.	
History 225. IMPERIALISM IN THE MODERN WORLD	D 3 credits
A study of the expansion of western nations into the world of Asia and Africa in the 19th century, and the contraction of western influence in these areas in the 20th century.	

- History 228.** **D**
WOMEN AND HISTORY 3 credits
 From myth to Ms. An introduction to the study of the idea and the ideal of woman and her role in history. The course approach will be interdisciplinary.
- History 229.** **D**
THE AMERICAN WOMAN 3 credits
 An in-depth analysis of the experience of women in American culture. Special attention to the women's rights movement, women and the law, and the unique challenges facing black women.
- History 231.** **D**
AMERICA'S MILITARY PAST 3 credits
 The impact of the American military establishment upon American society, and the formation of defense strategy and foreign policy.
- History 233.** **D**
THE AMERICAN IMMIGRANT 3 credits
 The history of immigration to America and the ethnic impact upon American institutions.
- History 237.** **D**
THE BLACK EXPERIENCE IN AMERICA 3 credits
 The main themes in black history from the African experience to the present with special attention given to slavery, protest movements, civil rights, and black achievement.
- History 240.** **D**
TOPICS IN MODERN HISTORY 3 credits
 An examination of selected topics illustrating the political, social, and cultural history of the modern world.
- History 242.** **D**
HISTORY OF THE WESTERN MOVEMENT IN AMERICA 3 credits
 A study of the American frontier emphasizing pioneer life, federal Indian policy, and the settlement of the Great Plains and Far West.

SECTION IV: NATIONAL COURSES

A detailed examination of specific eras in national histories. May be taken for distribution with the approval of the chairman.

- History 302.** 3 credits
THE AMERICAN REVOLUTION
 An intensive analysis of concepts and movements generated in the American colonies which resulted in revolution and separation of the British settlements.
- History 313.** 3 credits
JEFFERSONIAN-JACKSONIAN DEMOCRACY
 A detailed analysis of the development of the American political system in an increasingly democratic society.
- History 315.** 3 credits
THE CIVIL WAR ERA
 A detailed study of the disruption of the Union, stressing the causes, personalities, and human drama of the military events leading to Appomattox.
- History 325.** 3 credits
AMERICA AS A WORLD POWER, 1939-1979
 The growth of government involvement at home and abroad since 1939; reading and analysis of original documents.

- History 329.**
THE EMERGENCE OF MODERN AMERICA, 1877-1913 3 credits
The nationalization of American life, including the building of the railroad network, the rise of industry, the labor movement, immigration, and urbanization.
- History 347.**
THE UNITED STATES AND EAST ASIA 3 credits
The interrelationship of the United States and the East Asian world in the modern period.
- History 352.**
REVOLUTIONARY RUSSIA FROM 1917 TO THE PRESENT 3 credits
A survey of internal conflicts leading to the Revolution and its aftermath.
- History 358.**
RECENT BRITAIN EMPIRE TO WELFARE STATE 3 credits
A detailed analysis of the decay of the Empire, the rise of the welfare state, and the impact of both on English life.

SECTION V: SEMINARS

Required of all history majors. These courses are designed to provide the student with an exposure to the methodology of historical research. Methodology is offered in the fall semester, research seminars in the spring.

- History 480-485.**
SEMINARS 3-6 credits
Methodological and research courses.

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CONCENTRATION IN INTERNATIONAL STUDIES (CIS)

Directed by: DR. JOSHUA BUCH

Designated as a minor available to all students regardless of the major.

Required:

Category I: Two of the following General Education courses:

- English 162, 164, 165
- French 161, 162
- German 161, 162
- Spanish 161, 162

Category II: Two of the following Area Distribution courses:

- English 312
- Economics 412
- History 113, 114, 118, 215, 221*, 346*, 352*, 358*
- Political Science 104, 233*, 234, 235, 236
- Sociology 208, 213, 308
- Foreign Language**: German, French, Russian, Spanish

Category III: Three of the following courses***:

- Economics 431
- Political Science 220
- Management 481
- Finance/Marketing 403

*These courses can be taken only upon the approval of the Director.

**It is strongly recommended that CIS students take a foreign language at an appropriate level.

***These courses have some prerequisites; please see course descriptions.

MATHEMATICAL SCIENCES

JOHN C. O'NEILL, Ph.D., *Chairman*

Professor: Albright

Associate Professors: Hofmann, McCarty, O'Neill, Quinn, Wiley

Assistant Professors: Brady, Eisman, Langenberg, Mittal, Mooney, Tseng

Lecturer: Scheifer

Required for Major in Mathematical Sciences: 15 courses

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There are three major programs: computer science, mathematics, and mathematics-education. The choice of program should depend on career objectives and personal interests. If there are any questions the student should consult with the department chairman or departmental adviser.

Mathematics:

Mathematics 120, 221, 222, 240, 321, 341; Computer Science 150, Physics 105-106 or 111-112, and six mathematics courses from Section B.

Computer Science:

Mathematics 120, 221, 240, Computer Science 150, 153, 254, 257; four computer science courses chosen from Section D; two approved courses in probability and statistics (with permission of the chairman, one probability-statistics course and one computer science course from Section D); and two courses chosen from the following: computer science Section D; Information Systems 301, 401; Mathematics 222, 321, 341, 421; Philosophy 325; Physics 251, 353; computer science Section E (only with approval of chairman).

Mathematics-Education (11 courses):

Mathematics 120, 221, 222, 240, 321, 330, 341; Computer Science 150, Physics 105-106 or 111-112, and one mathematics course from Section B.

Computer Science-Mathematics (Dual major requiring approval of dean and department chairman.): Mathematics 120, 221, 222, 240, 321, 341, 410, 411; Computer Science 150, 153, 254, 257; four computer science courses from Section D; Physics 105-106; and two mathematics courses from Section B.

SECTION A:

Mathematics 101. (F) INTERMEDIATE ALGEBRA

3 credits

Algebraic operations, linear and quadratic equations, exponents and radicals, elementary functions, graphs, systems of linear equations. *Note:* Not to be taken to fulfill distribution or major requirements.

- Mathematics 107-108.** D
MATHEMATICS FOR THE LIBERAL ARTS 3-6 credits
 A terminal course aimed at liberal arts students. Fall term topics include numeration systems, computer programming (basic), groups, real numbers. Spring term: number theory, logic, geometry, probability. One year high school algebra only prerequisite for course.
- Mathematics 111. (F, S)** D
INTRODUCTION TO CALCULUS 3 credits
 Fundamentals of differential calculus, concentrating on algebraic, exponential, and logarithmic functions with applications of calculus to the management and social sciences.
- Mathematics 112. (F, S)** D
CALCULUS AND FINITE MATHEMATICS 3 credits
 Continuation of Mathematics 111. Topics include integral calculus, permutations, combinations, elementary probability, and linear algebra. Prerequisite: Mathematics 111.
- Mathematics 113. (F)** D
ALGEBRA AND TRIGONOMETRY 4 credits
 Sets: the real number system; linear systems; matrices; logarithmic, exponential, and trigonometric functions; theory of equations.
- Mathematics 120. (F, S)** D
CALCULUS AND ANALYTIC GEOMETRY I 4 credits
 Functions; limits and continuity; differentiation of algebraic functions; maxima and minima; curve tracing, velocity, and acceleration; integration with applications to areas, volumes, surfaces, and work; the fundamental theorem of the calculus.
- Mathematics 221. (F, S)** D
CALCULUS AND ANALYTIC GEOMETRY II 4 credits
 Differentiation and integration of transcendental functions; techniques of integration; improper integrals; conic sections; polar coordinates. Prerequisite: Mathematics 120.
- Mathematics 222. (F, S)** D
CALCULUS AND ANALYTIC GEOMETRY III 4 credits
 Linear algebra; vector functions; partial differentiation, multiple integration; infinite series; Taylor expansions. Prerequisite: Mathematics 221.
- Mathematics 240. (F, S)** D
LINEAR ALGEBRA 3 credits
 Linear equations and matrices; real vector spaces; linear transformations and matrices; determinants; eigenvalues and eigenvectors. Prerequisite: Mathematics 112 or 120.
- Mathematics 321. (F)** D
ADVANCED CALCULUS 3 credits
 Calculus of vector valued functions; Green, Gauss, and Stokes theorems; infinite series. Prerequisite: Mathematics 222.
- Mathematics 341. (F)** D
ABSTRACT ALGEBRA 3 credits
 Sets and mappings; groups, rings, and homomorphisms; Sylow theorems; quotient structures; polynomial rings; ideals. Prerequisite: Mathematics 240 or permission of instructor.

SECTION B:

- Mathematics 322. (S)** D
DIFFERENTIAL EQUATIONS 3 credits
 Differential equations of the first order; linear differential equations of higher order; Laplace transforms; series solutions; applications to the physical sciences. Prerequisite: Mathematics 222.

Mathematics 330. (F 1980)**MODERN GEOMETRIES**

3 credits

Topics from Euclidean geometry, projective geometry, the classical non-Euclidean geometries; recent developments in geometry. Prerequisite: Mathematics 240.

Mathematics 410. (F 1981)**PROBABILITY AND STATISTICS I**

3 credits

Sample spaces and probability measures; combinatorics; conditional probability and independence; random variables; densities and distributions; functions of a random variable; expected value; variance; Chebyshev's inequality; correlation coefficient; laws of large numbers; central limit theorem; applications to random walk. Prerequisite: Mathematics 222.

Mathematics 411. (S 1982)**PROBABILITY AND STATISTICS II**

3 credits

Measures of central tendency and variability treated briefly. Random sampling from normal and non-normal populations. Estimation of parameters. Maximum likelihood estimates. Normal, chi-square, Student's t , and F distributions. Correlation and regression. Prerequisite: Mathematics 410.

Mathematics 421. (F 1980)**NUMERICAL ANALYSIS**

4 credits

Basic concepts; interpolation and approximations; summation and finite differences; numerical differentiation and integration; roots of equations. Prerequisites: Mathematics 222, Computer Science 150 or 151.

Mathematics 422. (S 1981)**PARTIAL DIFFERENTIAL EQUATIONS**

3 credits

One dimensional wave equation, classification of linear second-order partial differential equations in two variables, some properties of elliptic and parabolic equations, separation of variables, Fourier series, Sturm-Liouville theory, Bessel functions. Prerequisite: Mathematics 322.

Mathematics 423.**REAL VARIABLES**

3 credits

Real number system; Lebesgue measure; Lebesgue integration; differentiation; general measure and integration theory. Prerequisite: Mathematics 321.

Mathematics 424. (S 1982)**COMPLEX VARIABLES**

3 credits

Analytic functions; Cauchy-Riemann equations; Cauchy's integral theorem; power series; infinite series; calculus of residues; contour integration; conformal mapping. Prerequisite: Mathematics 321.

Mathematics 430. (S 1981)**TOPOLOGY**

3 credits

Topological spaces; subspaces, product spaces, quotient spaces; connectedness; compactness; metric spaces; applications to analysis. Prerequisite: Mathematics 341.

Mathematics 470, 471, 472, 473.**SELECTED TOPICS IN MATHEMATICS**

3 credits

An introductory course to specialized research, concentrating on one particular aspect of mathematics. The subject matter will vary from term to term.

COMPUTER SCIENCE**SECTION C:****Computer Science 150. (F, S)****INTRODUCTION TO COMPUTER SCIENCE IN SCIENCE AND MATHEMATICS**

3 credits

Basic programming and program structure, data representation, survey of computers—languages, systems, and applications (with emphasis on mathematical-scientific applications)—

D

computer solution of several applied problems using the BASIC language. Recommended for science, mathematics, and computer science majors. Prerequisite: one year of college mathematics (or taken concurrently).

Computer Science 151. (F, S) D
INTRODUCTION TO COMPUTER SCIENCE IN BUSINESS ADMINISTRATION 3 credits

Basic programming and program structure; data representation; survey of computers—languages, systems, and applications (with emphasis on business applications)—computer solution of several data processing problems using the BASIC language. Recommended for business and liberal arts majors. Prerequisite: one year of college mathematics (or taken concurrently).

Computer Science 153. (F, S) D
ALGORITHMS AND DATA STRUCTURES 3 credits

Emphasis on development of algorithms for problem solution with programming of several non-trivial numeric and non-numeric algorithms in FORTRAN. Introduction to elementary data structures: stacks, queues, deques, linked lists, circular lists, trees, binary trees. Sorting and searching algorithms. Prerequisite: Computer Science 150 or 151.

Computer Science 154. (S) 3 credits
COBOL IN BUSINESS DATA PROCESSING

Review of computer concepts, problem solving, and program documentation. Study and use of COBOL language in several case studies of commercial data processing applications. Emphasis on structured programming, documentation, problem analysis, file processing, and organization. This is a terminal course designed for business majors. Prerequisite: Computer Science 151.

Computer Science 254. (F, S) 3 credits
FILE AND DATA MANAGEMENT SYSTEMS

Introduction to COBOL language. File types and file management. Introduction to data base management systems and random-access data structures in their implementation. Prerequisite: Computer Science 153.

Computer Science 257. (F, S) 3 credits
COMPUTER ORGANIZATION AND PROGRAMMING

Hardware organization: CPU, memory, control, addressing schemes, operations. Assembly language, linkages, input-output devices, interrupts, error handling, multiprogramming, and multiprocessing. Microprogramming, emulation, interpretation. Prerequisite: Computer Science 153.

SECTION D:

Computer Science 354. (F) 3 credits
DATA STRUCTURES

An in-depth treatment of a variety of data structures and their associated algorithms. Stacks, queues, arrays and their address mapping functions. Linear lists, list operations, sequential and linked storage allocation, and garbage collection. Trees, binary trees, tree operations, and use of trees in sorting and searching. Multi-linked structures. Dynamic storage allocation; files and file structures; hash codes and comparison of search methods. Prerequisite: Computer Science 153.

Computer Science 355. (F) 3 credits
DISCRETE STRUCTURES

Review of set algebra including mappings and relations; algebraic structures including semigroups and groups; elements of the theory of directed and undirected graphs; boolean algebra and propositional logic; applications of these structures to various areas of computer science. Prerequisite: Computer Science 153, Mathematics 240.

Computer Science 356. (S) 3 credits
PROGRAMMING LANGUAGES

Formal definition of programming languages including specification of syntax and semantics; simple statements including precedence, infix, prefix, and postfix notation; global properties of

algorithmic languages including scope of declarations, storage allocation, grouping of statements, binding time of constituents, subroutines, coroutines, and tasks; list processing, string manipulation, data description, and simulation languages; run-time representation of programs and data structures. Prerequisites: Computer Science 254, 257.

Computer Science 357. (F)

INTRODUCTION TO SYSTEMS PROGRAMMING

3 credits

Macros and their use. Structure and function of assemblers, loaders, and compilers. Students will design and program several simple examples. Structure and function of operating systems, monitors, virtual systems. Prerequisite: Computer Science 257.

Computer Science 454. (F)

ADVANCED DATA PROCESSING AND DATA BASE MANAGEMENT

3 credits

Data base system architecture—data structures, storage structures, and data languages. Alternate approaches to data base management systems—relational approach, hierarchical approach, network approach. Data base security and integrity. Query processing. Prerequisite: Computer Science 254

Computer Science 455. (S)

FORMAL LANGUAGES AND AUTOMATA THEORY

3 credits

Formal languages and their description by grammars and automata: regular, context-free, context sensitive, and unrestricted languages. Deterministic and non-deterministic machines. Finite state machines and their applications. Theory of translation, parsing, LL(K), LR(K) and precedence grammars. Prerequisite: Computer Science 355.

Computer Science 457. (S)

OPERATING SYSTEMS

3 credits

Principles and concepts of process and resource management in operating systems. I/O programming, interrupt mechanism; memory management; processor management, scheduler, traffic controller; device management and information management and file systems. Concepts will be illustrated in the context of modern computers. Prerequisite: Computer Science 357.

Computer Science 458. (S)

COMPUTER ARCHITECTURE

3 credits

General computer structure from mini and micro computers to large-scale systems. Memory technologies for internal and external storage. Stack and parallel computers; overlap and pipeline processing. Data communications: synchronous and asynchronous lines, protocols, networks, packet switching, multiplexing. Prerequisites: Computer Science 257, Mathematics 240.

SECTION E:

Computer Science 470, 471, 472, 473.

SELECTED TOPICS IN COMPUTER SCIENCE

3 credits

An introductory course to specialized research in computers and computing, concentrating on one particular aspect of computer science. The subject matter will vary from term to term.

MILITARY SCIENCE

LIEUT. COLONEL ROBERT E. KLEIN, M A

Professor of Military Science

Assistant Professors. Carey, Lutz, Smith, Wilkins

Military Science 101. (F, S)

MILITARY SCIENCE I. THE HISTORY OF MILITARY ART

1 credit

The art of war from ancient times to the present. A study of military operations and the evolution of military theory and institutions. One hour leadership laboratory optional.

Military Science 102. (S)**MILITARY SCIENCE I, AMERICAN MILITARY HISTORY**

2 credits

Examines the how and why of American involvement in wars from the Revolution to Vietnam. Team-taught by members of the history and military science departments. One hour leadership laboratory optional.

Military Science 201. (F, S)**MILITARY SCIENCE II, MILITARY GEOGRAPHY**

1 credit

The estimate of national power and the role of geopolitics examined in the framework of American military operations and the national security structure of the U.S. Political science and military science professors team teach. One hour leadership laboratory optional.

Military Science 202. (S)**MILITARY SCIENCE II, MILITARY GEOGRAPHY (Continued)**

2 credits

A study of tactical military geography to include a study of map reading and geomorphology. Class discusses and practices the essence of orienteering. Military science and geology professors team teach. One hour leadership laboratory optional.

Military Science 301. (F)**ADVANCED MILITARY SCIENCE III, MILITARY LEADERSHIP**

3 credits

Introductory course in leadership examining the principles of leadership. Includes a case study of the junior army leader, his roles and responsibilities. One hour leadership laboratory mandatory. Prerequisite: Permission of PMS.

Military Science 302. (S)**ADVANCED MILITARY SCIENCE III, MILITARY LEADERSHIP (Continued)**

3 credits

Analyzes the role of the leader by examining small unit operations of an infantry platoon. After studying the theory of operations, students are placed in leadership positions and given situations to analyze. One hour leadership laboratory mandatory. Prerequisite: Permission of PMS.

Military Science 401. (F)**ADVANCED MILITARY SCIENCE IV, PRINCIPLES OF MILITARY MANAGEMENT**

3 credits

Analyzes the principles of management by use of case studies. Stresses the art of communication for success in management. One hour leadership laboratory mandatory. Prerequisite: Permission of PMS.

Military Science 402. (S)**ADVANCED MILITARY SCIENCE IV, PRINCIPLES OF MILITARY MANAGEMENT (Continued)**

3 credits

Management by the junior officer. Includes command and staff responsibilities and relationships, military law, logistics, maintenance, and administration. One hour leadership laboratory mandatory. Prerequisite: Permission of PMS.

MUSIC

(See Fine Arts, page 64)

PHILOSOPHYMICHAEL KERLIN, Ph.D., *Chairman**Professors:* Kerlin, Mihalich, Naughton*Associate Professors:* Dallery, Fitzgerald,*Assistant Professors:* Fallon, Macoretta, Phillips**Required for Major in Philosophy:** 10 courses

- Philosophy 207 or 325; 311, 326, 327, 328, 416, 480.
- Any three courses above the 100 level.

GENERAL EDUCATION

The student must take one course in Series A and one course in Series B. The course in Series A must precede the one in Series B. An effort is made to introduce the student to the basic problems and methods of philosophy as well as to some texts from Plato or Aristotle.

SERIES A

Philosophy 161. (F, S)
HUMAN NATURE AND HUMAN DESTINY 3 credits

A study of man in himself and his relationship to others and to the world. Themes discussed include human freedom and human love; alienation; and human destiny.

Philosophy 162. (F, S)
FOUNDATIONS OF MORAL LIFE 3 credits

A study of philosophical interpretations of moral life and their application to specific problems. Themes discussed include the nature of commitment and responsibility; the problem of conscience and moral law; the character of moral judgment; and the notion of the good for mankind.

Philosophy 164. (F, S)
CRITICAL THINKING 3 credits

Aims at developing the skill of analyzing, interpreting, and criticizing arguments from a variety of disciplines. Topics include: clarification of concepts, distinguishing between conclusions and reasons for conclusions, evaluation of arguments, and the recognition of fallacies.

Philosophy 201. (F, S) **D**
ART AND CREATIVITY (AESTHETICS) 3 credits

A consideration of the philosophical basis for making judgments about the art experience. Designed to acquaint the student with the major features and thinkers of the classical, romantic, and modern periods.

Philosophy 202. (F) **D**
EASTERN PHILOSOPHY 3 credits

A study of the primary streams of Hindu and Chinese thought as they originated and as they attract western thinkers of today. Jainism, Samkhya-Yoga, Vedanta, Early Buddhism, Transcendental Buddhism, Confucianism, Taoism, forms of Chinese Buddhism, and Zen will be given most attention.

Philosophy 203. (S) **D**
AMERICAN PHILOSOPHY 3 credits

A presentation and evaluation of the major thinkers and themes in American thought from the Enlightenment through Transcendentalism to Pragmatism. Figures studied include: Emerson, Peirce, James, Dewey, and Royce.

Philosophy 204. (S) **D**
RUSSIAN AND EAST EUROPEAN PHILOSOPHY 3 credits

A study of such thinkers as Skovoroda, Tolstoy, Lenin, Stalin, Berdyaev and others. The relationship of Soviet Marxism and dialectical materialism to ethics, art, and science; human rights, national rights, and the problems of minorities.

SERIES B

Philosophy 166. (F, S)
REASON AND REALITY 3 credits

A study of the basic relationships between thought and reality. Themes discussed include skepticism and truth; rationality and selfhood; and knowledge and the various manifestations of existence.

Philosophy 167. (F, S)
PHILOSOPHICAL APPROACHES TO GOD 3 credits

A study of philosophical positions relating to questions about the existence of God. Themes discussed include various concepts of God; the possibility of proof for the existence of God; and the philosophical dimensions of the religious experience.

Philosophy 169. (F, S)
WORK AND CULTURE 3 credits

A philosophical consideration of the relationship between work and other dimensions of human life. Topics include: work and society, work and rationality, work and morality, work and play, work and creativity, work and alienation.

- Philosophy 205. (F)** **D**
PHILOSOPHY OF COMMUNISM 3 credits
 An historical and systematic study of the writings of Karl Marx emphasizing the Hegelian origins of his critique of capitalism, the problem of ideology, the Marxian view of social science, and the development of Marxism as theory and practice at the hands of Engels, Lenin, and Stalin.
- Philosophy 206. (F)** **D**
SOCIAL PHILOSOPHY 3 credits
 A critical examination of the nature and origins of society through the reading and discussion of some of the primary philosophical texts. Themes include: person and society, human rights and law, justice and society, culture and society, the natural and the social sciences. Particular problems considered will include the black experience in American society.
- Philosophy 207. (F)** **D**
CLASSICAL LOGIC 3 credits
 A study of traditional, or Aristotelian, logic stressing the major forms of inference found in ordinary discourse. It includes a consideration of the material or non-formal fallacies in deductive and inductive reasoning.
- Philosophy 208. (S)** **D**
THE PHILOSOPHY OF HISTORY 3 credits
 A study of some of the principal viewpoints about historical knowledge and historical development. Problems discussed include: subjectivity and objectivity, causality and explanation, perspective and relativity in history. The great schemes of historical interpretation also considered.
- Philosophy 209. (S)** **D**
THE PHILOSOPHY OF THOMAS AQUINAS 3 credits
 A study of the philosophical problems which arose in the Middle Ages and of the solutions proposed by Thomas Aquinas. Texts principally from *Essence and Existence* and the *Summa Theologiae*.
- Philosophy 210. (F, S)** **D**
EXISTENTIALISM 3 credits
 An approach to contemporary phenomenology and existentialism through philosophers such as Husserl, Heidegger, Sartre, and Merleau-Ponty. Topics include: the phenomenological method, human existence as process, meaning vs. absurdity, and the overcoming of alienation.
- Philosophy 212. (S)** **D**
ETHICS: THEORIES AND ISSUES 3 credits
 Intended to stimulate and help the student to do clear, precise, philosophical thinking about ethical questions through the reading and discussion of some of the primary philosophical texts that influenced the development of western moral thought; a more specialized course than Philosophy 162. *Recommended for all philosophy majors.*
- Philosophy 213. (F)** **D**
PHILOSOPHY OF SPORTS 3 credits
 A philosophical investigation of sports and athletics and their significance as a basic human experience. Topics include sports and the achievement of human excellence; sports as a basis of social and cultural structure; and the analysis of sports in philosophical movements such as Marxism and existentialism.
- Philosophy 221. (S)** **D**
BUSINESS ETHICS 3 credits
 Business practices evaluated in the light of ethical principles. Special concern given to moral dimensions of management decision making and to the ethical problems of consumerism and government control.
- Philosophy 222. (F)** **D**
LOVE AND HUMAN SEXUALITY 3 credits
 A philosophical exploration of human love and sexuality. Attention will be given to the connection between the philosophical approach and that of other disciplines. Works by authors such as Plato, Aristotle, Thomas Aquinas, Santayana, Ortega y Gasset and Sartre will be read.

- Philosophy 223. (S)**
PERSPECTIVES ON DEATH D
3 credits
A study of various philosophical strategies for coming to terms with human death. Western and non-Western sources will be used. Philosophical views on death applied to problems such as aging and dying, suicide and euthanasia, the medical conquest of death, and definitions of death. Of particular value for students choosing careers in the health professions.
- Philosophy 311. (F)**
PROBLEMS OF KNOWLEDGE D
3 credits
A systematic investigation into the sources, limits, and nature of knowledge. Topics include: meaning and its relation to truth of statements; nature and criteria of truth, role of observation, perspective and conceptualization in the justification of knowledge claims. *Required of all philosophy majors.*
- Philosophy 323. (S)**
THE PHILOSOPHY OF SCIENCE D
3 credits
The impact of scientific revolutions on observations and rationality in science studied through the writings of Kuhn and Feyerabend and others. Critical examinations of such concepts in science as scientific method, induction, verification, and falsification.
- Philosophy 325. (S)**
SYMBOLIC LOGIC D
3 credits
A study of the following aspects of symbolic logic: truth functional logic, quantificational logic, logic of relations, proofs of adequacy for the system used, undecidability and incompleteness, the relationship between modern logic and Aristotelian logic.
- Philosophy 326. (F)**
HISTORY OF WESTERN PHILOSOPHY: ANCIENT PERIOD D
3 credits
Philosophy in ancient Greece and Rome, with concentration on Plato and Aristotle. *Required of all philosophy majors; open to others.*
- Philosophy 327. (S)**
HISTORY OF WESTERN PHILOSOPHY: MEDIEVAL AND
RENAISSANCE PERIODS D
3 credits
From St. Augustine through the age of scholasticism to the Renaissance. *Required of all philosophy majors; open to others.*
- Philosophy 328. (F)**
HISTORY OF WESTERN PHILOSOPHY: MODERN PERIOD D
3 credits
From Hobbes and Descartes to the Enlightenment, with concentration on the rationalists, empiricists, and Kant. *Required of all philosophy majors; open to others.*
- Philosophy 416. (F)**
TUTORIAL IN PHILOSOPHY 3 credits
Introduces the student to the critical reading of a major philosophical text. Text will be studied in common, and critical papers will be written on the text studied. *Required of philosophy majors; open to others with approval of chairman.*
- Philosophy 470.**
SPECIAL TOPICS D
3 credits
- Philosophy 480. (S)**
SEMINAR 3 credits
An investigation of a philosophical theme chosen each year by the department. Students will write a paper on the theme and present their work to the seminar. The seminar has for its purpose the integration of previous philosophical study. *Required of philosophy majors; open to others with approval of chairman.*

PHYSICS

STEPHEN A. LONGO, Ph.D., *Chairman*
Associate Professors: Guttman, Longo, Simmons
Assistant Professor: Strieb

Required for Major in Physics: 15 courses

- Physics 111-112, 113, 211, 212, 213, 311, 313, 411, 412
- Physics 214 and 224 or 351 and 352
- Mathematics 120, 221, 222

Physics 101. (F) **D**
FROM THE ATOM UP 3 credits

For science and non-science majors. The concepts and models of classical dynamics and astronomy culminating in the Newtonian world view. Faraday-Maxwell electrodynamics and the special theory of relativity. Concepts rather than mathematics stressed. No prerequisites.

Physics 102. **D**
FROM THE ATOM DOWN 3 credits

For science and non-science majors. General relativity and cosmology. The conservation laws and their relation to elementary particle physics. The role of chance in physics from thermodynamics to the quantum revolution. Matter theory. Physics and life. Concepts rather than mathematics stressed.

Physics 105-106. **D**
GENERAL PHYSICS 4 credits

Vectors, elementary mechanics of point particles and rigid bodies, gravitation, simple harmonic motion and waves. Electromagnetism, D.C. and A.C. circuits and elementary optics. Prerequisite: Mathematics 120. Three hours lecture, two hours laboratory; two terms.

Physics 111-112. **D**
GENERAL PHYSICS I & II 4 credits

For freshmen physics majors and qualified students in other disciplines. An introduction to the ideas and techniques of classical physics. First semester: classical mechanics of particles and rigid bodies. Second semester: electricity and magnetism, thermal physics. Relation of these areas to current research is stressed. Prerequisite: Mathematics 120 and 221 concurrently (or equivalent). Three hours lecture, one hour problem session, two hours laboratory; two terms.

Physics 113. (F) **D**
GENERAL PHYSICS III 3 credits

Includes topics relative to wave phenomena and modern physics. Prerequisites: Physics 105-106 or 111-112; Mathematics 221 concurrently.

Physics 211. (S) **D**
MATHEMATICAL PHYSICS I 3 credits

Vector analysis, differential equations, introduction to partial differential equations, Fourier series, special functions, and boundary value problems. Emphasis on the physical origins and applications of mathematical techniques. Prerequisite: Mathematics 221.

Physics 212. (F) **D**
MATHEMATICAL PHYSICS II 3 credits

Complex variables and complex integration, Fourier and Laplace transforms, Green's functions, special function of mathematical physics and boundary value problems. Physical applications stressed. Prerequisite: Physics 211 or permission of instructor.

- Physics 213. (S)**
THERMAL PHYSICS 3 credits
Topics treated include the first, second, and third law of thermodynamics, kinetic theory of gases; transport phenomena; Maxwell-Boltzmann statistics; Bose-Einstein and Fermi-Dirac statistics. Three hours lecture. Prerequisite: Physics 105-106.
- Physics 214. (F)**
ELECTRONICS I 3 credits
Circuit theory involving resistors, capacitors, inductors, transformers; diodes, bipolar and field effect transistors, power supplies. Familiarization with basic electronic instruments such as oscilloscope, function generator and impedance bridge. Prerequisites: Mathematics 222 and Physics 105-106. Laboratory required. Alternates yearly with Physics 251.
- Physics 220. (S)**
TOPICS IN BIOPHYSICS 3 credits
Mechanics: loading of muscles and bones, fracturing of bones, energy considerations of insect flight. Optics: mirrors, lenses, aberrations, microscopes, physics of the eye. Fluids: pressure and flow in tubes, viscosity, diffusion applied to membranes. Prerequisites: Physics 105-106 and Biology 151-152, or permission of the instructor.
- Physics 224. (S)**
ELECTRONICS II 3 credits
Three terminal devices, transistors and tubes, small signal analysis, DC biasing, multi-stage operation, feedback, special purpose semiconductor devices, operational amplifiers. Prerequisite: Physics 214. Laboratory required.
- Physics 251.**
INTRODUCTION TO DIGITAL COMPUTER ELECTRONICS 3 credits
Review of Ohm's Law, diodes and transistors (treated only as switching devices), Boolean algebra, 7400 Integrated circuit series, counters, adders, general registers and basic computer hardware. Prerequisite: none, but Physics 105-106 recommended. Laboratory required.
- Physics 311-312.**
ELECTRICITY AND MAGNETISM 3 credits
Electrostatics, magnetostatics, dielectrics and magnetic materials, Maxwell's equations, electromagnetic waves, electromagnetic radiation. Prerequisite: Physics 211 or equivalent.
- Physics 313. (S)**
STATES, WAVES, AND PHOTONS 3 credits
A modern introduction to optics encompassing matrix representations of optical systems and polarization states of light; the Jones calculus, the Mueller calculus and the Stokes representation; states of light as eigenstates of operators, expectation values, the bracket product and probability amplitudes; an approach to scalar diffraction through Green's theorem and Fourier transforms; the electromagnetic field and its quantization. Prerequisite: Physics 311.
- Physics 321. (S)**
INTRODUCTION TO ASTROPHYSICS 3 credits
Methods for determining the basic properties of stars, such as temperatures, masses, and radii; stellar energy and structure.
- Physics 322. (S)**
PLANETARY PHYSICS 3 credits
The solar system and its origins; interiors and atmospheres of terrestrial and giant planets, interplanetary matter and comets. Prerequisite: Mathematics 221.
- Physics 351.**
ADVANCED LABORATORY I 3 credits
Laboratory work with close faculty guidance, but emphasizing independent work and a professional approach. A selection of experiments from mechanics, acoustics, electricity and magnetism, atomic and nuclear physics, experimental methods and instrumentation, error and data analysis. Prerequisite: Physics 113.

Physics 352.**ADVANCED LABORATORY II**

3 credits

Similar in purpose to Physics 351 but with material selected which will not duplicate the student's previous experience. Prerequisite: Physics 113.

Physics 353. (S)**INTRODUCTION TO MICROPROCESSORS**

3 credits

Hardware and software of popular microprocessor chips will be dealt with. E.g. 6800, 1802, 8080, 6502. CPU's, I/O. memories and A/D will be some of the topics treated. Microprocessors available to conduct required experiments. Prerequisite: Physics 251. Laboratory required.

Physics 411-421.**MECHANICS**

3 credits

Topics include: the single particle and systems of particles in one, two, and three dimensions; rigid body motion; moving coordinates systems; the mechanics of continuous media; Lagrangian and Hamiltonian formulations; tensor methods; special relativity. Prerequisites: General Physics, Mathematics 222, Physics 211 or permission of the instructor.

Physics 412.**QUANTUM PHYSICS I**

3 credits

The Schrodinger equation and its application to one dimensional systems and the hydrogen atom. Heisenberg's uncertainty relations, perturbation theory for degenerate and nondegenerate states. Prerequisite: Physics 211 or equivalent.

Physics 422.**QUANTUM PHYSICS II**

3 credits

Quantizing the electromagnetic field and applications of quantum mechanics to problems in atomic, nuclear and solid state physics. Prerequisite: Physics 412.

Physics 470.**SPECIAL TOPICS**

3 credits

As interests indicate, special programs may be introduced into the curriculum, discussing specialized areas for group or independent study.

Physics 480-481.**RESEARCH**

1-2 credits

Individual studies and research, presentation of papers, familiarization with the literature.

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POLITICAL SCIENCE

ROBERT J. COURTNEY, Ph.D., *Chairman*

Professors: Cleary, Courtney, Dillon

Associate Professor: Nathans

Assistant Professors: Hill, McGovern

Lecturer: Foley

All political science courses except 480-481 are open to all students.

Required for Major in Political Science: 15 courses

- Political Science 102, 104, 220, 222, 480, 481
- Seven political science electives
- Economics 101-102

Political Science 102. (F, S)**AMERICAN FEDERAL GOVERNMENT**

D

3 credits

An examination of the organization and functions of the federal government of the United States; a study of the separation of powers and relations with states. *Required of all political science majors.*

- Political Science 104. (S, F)** **D**
WESTERN EUROPEAN POLITICS 3 credits
 A political analysis of the constitutional principles and governmental organizations of England, France, and Germany. *Required of all political science majors.*
- Political Science 220. (F)** **D**
INTERNATIONAL RELATIONS 3 credits
 An analysis of the basic patterns and major factors underlying international politics. Consideration of current international problems. *Required of all political science majors.*
- Political Science 222. (S)** **D**
SURVEY OF POLITICAL THOUGHT 3 credits
 An analysis of the major political writers from Plato to the present. Emphasis on each author's concept of the state, its function and end, and his solution to the problem of the reconciliation of the common good with individual freedom. *Required of all political science majors.*
- Political Science 230. (F 1981)** **D**
POLITICAL GEOGRAPHY 3 credits
 A survey of the geographic factors influencing the real and potential economic and political development of nations.
- Political Science 231. (F 1980)** **D**
U.S. FOREIGN RELATIONS I 3 credits
 A study of the diplomatic and military instruments of American foreign relations, the formal and informal powers and processes by which policy is made, and the basic patterns of national interest and policy prior to World War II.
- Political Science 232. (S 1981)** **D**
U.S. FOREIGN RELATIONS II 3 credits
 An analysis of the main problems of American foreign relations from 1945 to the present.
- Political Science 233. (S 1982)** **D**
WESTERN EUROPEAN FOREIGN POLICIES 3 credits
 A comparative analysis of the recent and contemporary foreign policies of Great Britain, France, and Germany, with some incidental material on the diplomacy of selected smaller powers.
- Political Science 234. (F 1980)** **D**
THE POLITICS OF THE SOVIET UNION 3 credits
 An examination of the major elements that determine the nature of Soviet polity, including the role of the Communist Party, the relationship between the party and government, the growth of dissent within the Soviet Union, and future prospects for Soviet society.
- Political Science 235. (F 1981)** **D**
LATIN AMERICAN POLITICS 3 credits
 An examination of the common institutions and political practices that characterize Latin American governments. Mexico examined as an illustration of these institutions and practices.
- Political Science 236. (F 1981)** **D**
NON-WESTERN POLITICAL SYSTEMS 3 credits
 A study of the governmental institutions and political processes of the People's Republic of China and Japan. Particular emphasis on problems of development and modernization.
- Political Science 240. (S 1982)** **D**
AMERICAN STATE GOVERNMENT 3 credits
 A study of the state as a partner in the federal system; the states' constitutional development; and principles underlying state governmental organization, reorganization, and functions.
- Political Science 241. (S 1981)** **D**
MUNICIPAL GOVERNMENT 3 credits
 A study of the organization and functions of government at the municipal level and an analysis of trends and types of municipal governments.

Political Science 242. (S) AMERICAN POLITICAL PARTIES	D 3 credits
A view of the political problems of the United States as revealed in the major and minor political parties that have arisen during the country's history.	
Political Science 243. (F) AMERICAN CONSTITUTIONAL LAW	D 3 credits
An analysis of the development of the Constitution via the interpretations of the Supreme Court. Principal topics are the federal system, judicial review, separation of powers, powers of Congress and the President, the Commerce Clause, and political and civil rights.	
Political Science 244. (S 1982) THE LEGISLATIVE PROCESS: THE U.S. CONGRESS	D 3 credits
The role of Congress in the legislative process; its internal operations and external political relations; especially with the President. Comparison of the characteristics of Congress with those of state legislatures and European legislative bodies.	
Political Science 245. (F 1980) MODERN POLITICAL IDEOLOGIES	D 3 credits
The interrelation of theory and practice and the development of "ideological" thinking explored through an analysis of the conceptions of man, history, state, and revolution espoused by Marxism-Leninism, Fascism-National Socialism, and Anarchism. Readings from original sources: Marx, Lenin, Mussolini, Hitler, Sorel, Camus, and Guevera.	
Political Science 247. (S 1981) BUREAUCRATIC POLITICS AND ADMINISTRATION	D 3 credits
Analysis of bureaucracy within the national and urban context; internal characteristics and external political relationships with executives and legislatures, including unionization of bureaucratic personnel, budgetary relationships, innovation and the relationships of bureaucracy with clientele groups and the general public.	
Political Science 250. (S) SCIENCE OF GOVERNMENT	D 3 credits
A study of the nature of political authority, the state, its organs, and their functions.	
Political Science 320-321. URBAN STUDIES	D 3-6 credits
See page 52 for course descriptions.	
Political Science 330. (F 1981) THE EDUCATION OF URBAN POPULATIONS	D 3 credits
Identical with Education 330 and Sociology 330. See page 56.	
Political Science 370. (F, S) SPECIAL TOPICS OR INDEPENDENT STUDY	D 3 credits
As interests indicate, special programs may be introduced into the curriculum discussing highly specialized problems for group or independent study.	
Political Science/Sociology/Economics 420-421 FIELD SEMINAR SEMESTER IN URBAN STUDIES	
See page 52 for course description.	
Political Science 480. (F) SEMINAR I	3 credits
A study of methods of research and scholarly writing. Directed research and reports on individual assignments. <i>Required of all political science majors.</i>	
Political Science 481. (S) SEMINAR II	3 credits
Supervised research and writing on major topic. Weekly presentation and group discussion of individual papers. Submission of written thesis. <i>Required of all political science majors.</i>	

POLITICAL SCIENCE/PUBLIC ADMINISTRATION

(Administered by the Chairman, Political Science Department)

Required for Major in Political Science/Public Administration: 15 courses

- Political Science 102, 222, 240, 241, 243, 247, 480, 481
- Economics 101, 102, 213
- Accounting 101, 102
- Management 201
- Relations 302

PSYCHOLOGY

JOSEPH BURKE, F.S.C., Ph.D., *Chairman*

Professors: Dondero, Grimes, McCarthy, Rooney

Associate Professors: Burke, Filicetti, Gilligan, Kovatch, Oden,

Pfeiffer, Schreiner, Smith

Assistant Professors: Aquilino, Bernier, Pritchard

Required for Major in Psychology: Track 1: 12 courses; Track 2: 13 courses

Track 1: Pre-Graduate

- Psychology 101, 201, 210, 211, 319, 320
- Four electives in psychology
- Two courses in mathematics

Track 2: General Studies

- Psychology 101, 206, 210, 315, 340, 408
- Five electives in psychology
- Two courses in mathematics

Psychology 101. (F, S)

GENERAL PSYCHOLOGY I

D
3 credits

Introduction to the scientific study of human behavior. Emphasis on methods of psychological research and principles and theories developing from this research.

Psychology 201. (F, S)

ADVANCED GENERAL PSYCHOLOGY

3 credits

Introduction to selected content areas of experimental psychology, including psychobiology, sensation and perception, and cognitive processes. Prerequisite: Psychology 101.

Psychology 203. (F, S)

DEVELOPMENTAL PSYCHOLOGY

D
3 credits

A general study of the development of behavior and the human personality from conception through adulthood; special emphasis on childhood and adolescence. Prerequisite: Psychology 101

N.B. General Psychology 101 is a prerequisite for all other psychology courses (with the exception of Psychology 210). With the permission of the instructor in a particular course this prerequisite may be waived.

Psychology 206. (F, S) PERSONALITY DYNAMICS AND ADJUSTMENT	D 3 credits
An analysis of the human system, the dynamics of individual behavior, and a consideration of resources necessary for effective living as they are related to a better understanding of personal adjustments in healthy persons developing toward maturity. Prerequisite: Psychology 101.	
Psychology 210. (F) STATISTICS I	3 credits
An introduction to statistics, emphasizing such descriptive measures as central tendency, variability and correlation. Prerequisites: Mathematics 111-112 or equivalent.	
Psychology 211. (S) STATISTICS II	3 credits
An intermediate course in inferential statistics, emphasizing such techniques as the analysis of variance and t-tests. Prerequisite: Psychology 210 or equivalent.	
Psychology 301. (F, S) EDUCATIONAL PSYCHOLOGY	D 3 credits
Identical with Education 203. See page 54.	
Psychology 306. (S) TESTS AND MEASUREMENTS	3 credits
The selection, administration, and interpretation of psychological tests used in the measurement of aptitudes, achievement, interest, and personality. Prerequisites: Psychology 101, 210 or equivalent.	
Psychology 312. (F 1980) BAYESIAN STATISTICS FOR SOCIAL SCIENTISTS	3 credits
Clarification of the meaning of statistical calculations and analysis from the Bayesian point of view. Data descriptions and the problem of inferences are contrasted with traditional statistical treatments. Prerequisite: A two-semester course in introductory statistics.	
Psychology 315. (F, S) ABNORMAL PSYCHOLOGY	D 3 credits
An introductory course surveying the principal forms of the major and minor mental disorders, with emphasis on the causes, symptoms, course, and treatment. An analysis of the over-all problem of mental illness and a study of certain borderline personality and behavioral patterns and other forms of psychological deviation. Prerequisite: Psychology 101 or 206 or permission of chairman.	
Psychology 319. (F) EXPERIMENTAL PSYCHOLOGY I	4 credits
A laboratory course designed to introduce the student to the classical psychological experiments and to train him in the methods of experimental design and research. Experiments on the sensory processes, perception, learning, memory, thought processes, and emotions. Prerequisites: Psychology 201 and 211 or permission of chairman. Three hours lecture, two hours laboratory.	
Psychology 320. (S) EXPERIMENTAL PSYCHOLOGY II	4 credits
Lectures and discussions on modern experimental psychology. For laboratory work, the student plans, designs, and performs an original research experiment. Prerequisite: Psychology 319. Three hours lecture, two hours laboratory.	
Psychology 325. (F, S) READINGS IN PSYCHOLOGY	3 credits
Readings consist of basic books and periodicals having relevance for the broad field of psychology; assignments discussed in seminar fashion. Prerequisite: Psychology 101.	

- Psychology 340. (S)**
METHODOLOGY FOR STUDIES AND RESEARCH 3 credits
 A study of the nature of scientific research methodology; emphasis on critical reading and evaluating reports of studies and research; development of skill in writing review papers; utilization of research literature in the behavioral sciences; data analysis and critiques of extant research. Prerequisites: Psychology 101, 210.
- Psychology 350. (F, S)**
EFFECTIVE COMMUNICATION 3 credits
 A deepening understanding of, and personal growth experiences in, the art of interpersonal communication. Attention given to listening and empathy, discussion and decision making, confrontation and conflict management, attitudinal systems and Gestalt, verbal and non-verbal communication, creative goal-setting, individual and social growth. Prerequisite: permission of chairman.
- Psychology 360. (S)** **D**
INDUSTRIAL AND BUSINESS PSYCHOLOGY 3 credits
 A study of those psychological principles, methods, and techniques which are especially relevant to an understanding of human relations and efficiency in business and industry.
- Psychology 364. (F)** **D**
SOCIAL PSYCHOLOGY 3 credits
 A study of the facts and theories dealing with the phenomena of social behavior. Focuses on individual behavior as it affects and is affected by the behavior of others.
- Psychology 406. (F, S)** **D**
COUNSELING THEORIES AND PRINCIPLES 3 credits
 Theories and principles of the counseling process. The dynamics of human change. The objectives, work, and continuing problems of counseling. Prerequisite: Psychology 101 or equivalent.
- Psychology 407. (F)**
THEORIES OF LEARNING 3 credits
 An analysis of the principal theories of learning in the light of recent experiments in animal and human learning. Prerequisite: Psychology 201.
- Psychology 408. (F)**
THEORIES OF PERSONALITY 3 credits
 A systematic study of the principal theories of personality with particular emphasis on recent trends, research methodology, and personality measurement. Prerequisite: Psychology 101.
- Psychology 409. (F)**
HISTORY AND SYSTEMS OF PSYCHOLOGY 3 credits
 An examination of the beginnings and development of psychology as a science and profession and of its various approaches, systems, fields, problems and applications; the historical roots of these in philosophy, biology, and national culture. Prerequisite: junior or senior standing as psychology major.
- Psychology 420. (S)**
PHYSIOLOGICAL PSYCHOLOGY 3 credits
 An introduction to the neurological and endocrinological bases of behavior. Consideration of sensory and motor processes, motivation and emotion, learning and memory. Prerequisite: Psychology 201. Two hours lecture, two hours laboratory.
- Psychology 470-471. (F, S)**
SPECIAL TOPICS IN PSYCHOLOGY 3-6 credits
 Content will vary each year to present the psychological underpinnings of issues on the contemporary American scene. Such topics as the psychology of drug use, of prejudice, of mob action, of attitude change, and of religion will be treated in various semesters. Prerequisite varies with topic.

Psychology 480. (F)**SEMINAR I**

3 credits

Readings, discussion, and analysis of contemporary psychological theories and research; individual student research and presentation of paper. Prerequisite: junior or senior standing as psychology major.

Psychology 481. (S)**SEMINAR II**

3 credits

A continuation of Psychology 480 with primary focus on topics judged by students and faculty to be particularly relevant for present day psychology majors. Prerequisite: junior or senior standing as psychology major.

Psychology 485-486. (F, S)**PSYCHOLOGICAL RESEARCH OR PRACTICUM**

3-6 credits

Offers the student the option of conducting a research project under the direction of a faculty member or of obtaining practical experience serving in an institutional setting under professional supervision. Program planned in advance. Prerequisite: open to senior psychology majors only. One or two terms.

RELIGIONEDWARD DAVIS, F.S.C., Ph.D., *Chairman*

Associate Professors: Biechler, Davis, Efroymsen, Keenan, Kelly,
Martin, Schepers, White

Assistant Professor: Halligan

Lecturers: Boni, Devlin, Echelmeier, Frank, Kaplan, Matteo,
Mowrey, Reizburg, Schorr, Van Everbroeck

101

Required for Major in Religion: 12 courses

- Eleven religion electives, including at least one from each of the four study areas (biblical, theological, historical, and religious) and Religion 480. At least one of these electives must be in a religious tradition outside of Judaeo-Christianity.

GENERAL EDUCATION**Religion 161. (F, S)****THE BIBLE AS RELIGIOUS LITERATURE**

3 credits

The origins, evolution, and formation of the Jewish and Christian Scriptures; the ideas of the people who produced them, and the Near Eastern cultures and literature which contributed to them.

Religion 162. (F, S)**PROBLEMS OF FAITH IN THE CHRISTIAN WEST**

3 credits

An inquiry into the development of the concept of faith in important periods in the history of Christian thought. The course includes a critical examination of crucial issues associated with faith, such as the significance of Jesus Christ,

the relationship between faith and reason, the contribution of the Reformation and of existentialism to the understanding of faith, and the atheistic challenge to faith.

Religion 163. (F, S)**HUMAN RELIGIOUS EXPERIENCE**

(The Phenomenology of Religion) 3 credits

A study of the diverse patterns of thought, behavior, and structures that express human religious experience. Themes are selected across the great religious traditions and from tribal and archaic cultures. The course seeks to develop an awareness of the diversity of religious expression and a critical appraisal of the methods used in interpreting this central experience.

Religion 164. (F, S)
RELIGION AND THE CONTEMPORARY
SEARCH FOR SELF 3 credits

An inquiry into the contemporary meaning of self-discovery, seen in the context of those socio-religious values which contribute to an individual's sense of personal identity. A study of religion as an expression of the deepest dimension of human life leading to an appreciation of the possible variety of such expressions in terms of personal self-understanding.

Religion 167. (F, S)
CATHOLICISM IN THE MODERN WORLD:
PROBLEMS AND CHALLENGES 3 credits

Religious and social forces shaping present-day Catholicism. Vatican II: a catalyst for change. Liturgical reform. Biblical Renewal. Ecumenism. Women's movement. Freedom and authority in Church structures. The challenge to Catholic education. Contemporary movements: charismatic religion, traditionalism. Influence of American culture on the Church in the United States.

SECTION A: BIBLICAL STUDIES

Religion 210. (F) **D**
OLD TESTAMENT THEMES 3 credits

A study of the origin and development of biblical traditions and theological themes: God, man, the meaning of life, the Exodus theme, prophecy, etc. Such ideas will be studied in both their Old Testament context as well as their relation to the New Testament.

Religion 211. **D**
CONTEMPORARY NEW TESTAMENT ISSUES 3 credits

Specific problems of New Testament Christianity as reflected in its literature. Content to be specified at registration.

Religion 212. (S) **D**
THE PROPHETS OF ANCIENT ISRAEL 3 credits

Prophecy and prophetic literature in the Bible. Prophecy as an institution in the Near East; its unique development in Israel. Theological message of the biblical prophets.

Religion 310. (F) **D**
THE SYNOPTIC GOSPELS 3 credits

How did the Gospels develop? How historically reliable are they? What value have they as sources for a study of the person of Jesus of Nazareth? What is Form Criticism? Source Criticism? The state of contemporary biblical scholarship. These points will be illustrated through a guided study in the synoptic Gospels: Matthew, Mark, Luke.

Religion 311. (S) **D**
THE NEW TESTAMENT WORLD OF JOHN OR PAUL 3 credits

A critical appraisal of the literary structure and themes of the writings of John or Paul. The Jewish, Hellenistic, and early Church influence in their composition will be examined. These New Testament writings as a reflection of and as an influence on their times. Writings of John studied in odd-numbered years; those of Paul in even-numbered years. May be repeated for credit if the two different contents are taken.

SECTION B: THEOLOGICAL STUDIES

Religion 220. (F) **D**
THE CHURCH ISSUES AND PROBLEMS 3 credits

An brief study of the origins of the Church, and an examination of the various modes in which Church has been and can be understood. Social structure and dynamics of the Church and her mission in today's world.

- Religion 221. (F)** **D**
JESUS. GOD AND MAN 3 credits
 The person and mission of Jesus in post-biblical theology. Emphasis on contemporary interpretations of Jesus as Man and God.
- Religion 222. (F)** **D**
THE SACRAMENTS 3 credits
 An inquiry into the origin and development of the Christian symbols highlighting some of the problems of modern sacramental theology.
- Religion 223. (F)** **D**
CONTEMPORARY MORAL PROBLEMS 3 credits
 Study/discussion of selected current issues: War. Racism. Sexual Conduct. Abortion. Euthanasia. Women's Rights. Capital Punishment. Etc.
- Religion 224. (S)** **D**
MAN AS BELIEVER 3 credits
 An inquiry into the nature of religious faith and into the issues that surface when believers come alive to the realities of modern life. The relation between action and contemplation. The question of faith and history. The combination of religious belief and morality. The influence of faith on social institutions and vice versa.
- Religion 320.** **D**
THEOLOGICAL ISSUES 3 credits
 Selected theological topics of current controversy. Content to be specified at registration.
- Religion 323. (S)** **D**
BIOMEDICAL PROBLEMS 3 credits
 Study/discussion of selected ethical dilemmas arising from recent advances in biology, medicine, and the behavioral sciences. E.g., Abortion/Euthanasia. Death. Genetic Intervention. Informed Consent. Human Experimentation. Etc. *Presupposes no special knowledge of biology or medicine.*
- Religion 325. (S)** **D**
A CONTEMPORARY THEOLOGY OF MARRIAGE 3 credits
 An investigation into the possible meanings of marriage with the purpose of discovering the ways in which this human reality can become a saving mystery that helps people to become what they are supposed to be.

SECTION C: HISTORICAL STUDIES

- Religion 230. (S)** **D**
RELIGION IN AMERICA 3 credits
 A study of the major religious movements within the Roman Catholic Church and Protestant churches in the United States from the American Revolution to the present day. The course will investigate the theological implications for the churches of such movements as the American Revolution, the Great Awakening, the Abolitionist Movement, the Civil War, the Gospel of Wealth, the Great Depression, World War II, and the Atomic Age.
- Religion 239. (F)** **D**
THE REFORMATION AND THE CATHOLIC RESPONSE 3 credits
 A critical audition of the religious voices of the Reformation era, with attention to their origins, context, and peculiarities. Special treatment to the important reformers both on the Continent (Luther, Calvin, Zwingli, Bucer) and in the British Isles (Cranmer, Knox), as well as to pertinent Catholic thought (Council of Trent).

Religion 330. (S)**EARLY CHRISTIANITY: CRISIS AND PROCESS****D**

3 credits

An in-depth exploration of the issues around which Christianity of the first four centuries took form: the struggle with the Roman Empire; the confrontation with Hellenistic philosophy and religion; Jewish Christianity, gnosticism, and the development of "orthodoxy." The effect of all this on the origin and shape of certain ideas and institutions such as Christology, church, papacy, interpretation of history, and sex.

Religion 331. (F)**DEVELOPMENT OF CHRISTIANITY IN THE MIDDLE AGES****D**

3 credits

A study of religion in the Middle Ages and Renaissance periods concentrating on such popular movements as the Cathars, Waldensians, Fraticelli, Lollards, and Beguines, as well as on such phenomena as millenarism, reformation, and conciliarism. Relation of these movements and phenomena to the evolution of art, the inquisition, papacy, universities, and monasteries. The religious and ethical implications of humanism and capitalism.

Religion 332. (S)**NINETEENTH-CENTURY RELIGIOUS THOUGHT****D**

3 credits

A critical examination of the great religious movements of the nineteenth century that have most contributed to the present religious situation. This course will focus on the encounter between Christian thought and nineteenth-century philosophy, history, and natural science. Special attention will be given to Newman and the Oxford Movement; Feuerbach and the post-Hegelian criticism; the religious thought of Marx and Engels; Strauss and history; Darwin and the challenge of science. The advent of liberalism in Protestant and Catholic circles.

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SECTION D: RELIGIOUS STUDIES**Religion 240. (S)****THE RELIGIONS OF INDIA****D**

3 credits

A study of the origin, development, and structure of Hindu traditions. Vedic beginnings. Major reform movements. Sects and schools of interpretation. Yoga, bhakti, and mystical traditions. Recent developments.

Religion 241. (F)**BUDDHISM AND THE RELIGIONS OF CHINA AND JAPAN****D**

3 credits

A study and discussion of the rise of Buddhism and its subsequent division into Theravada and Mahayana Buddhism. Its Chinese and Japanese mutations (Pure Land and Zen). Confucianism, Taoism, Shinto, Modern phenomena: Soka Gakkai and Maoism.

Religion 242. (F, S)**JUDAISM****D**

3 credits

A study of the historical origin, roots, and developments of Judaism as a religion, as well as a cultural, civil, and ethnic group. The course will evaluate Jewish social and educational values as well as religious problems and attitudes among Jews today.

Religion 243. (S)**RELIGIOUS ATTITUDES IN MODERN LITERATURE****D**

3 credits

An introduction to the meeting between religion and literature as found in the writings of Dostoevsky, Kafka, Bernanos, Eliot, Camus, Beckett, Kazantzakis, and in some of the poetry of Yeats, Auden, Frost, Roethke. A variety of literary forms will be examined to discern the writers' religious intentions. Topics include: Can an "atheist" be religious? Is God present in a book which makes no mention of him? What is meant by the term "religious"? Traditional issues—the problem of evil, the moral dilemma, human freedom—explored. Identical with English 243

SECTION E: SPECIAL STUDIES

Religion 470. (F, S)

SPECIAL TOPICS IN RELIGION

D
3 credits

Content of the course will be announced whenever it is offered. May be repeated for credit.

Religion 480. (F)

SEMINAR

3 credits

An introduction to scholarly research through the selection, writing, and small-group presentation of formal papers in a specific area determined by the instructor. Required of all religion majors; open to others approved by chairman. Prerequisite: 15 hours of religion. May be taken in junior or senior year.

SOCIOLOGY

FINN HORNUM, M.A., *Chairperson*

Professor: J. F. Connors

Associate Professors: Coffee, Leonard

Assistant Professors: Bird, J. T. Connors,

Hornum, Stevenson, Stull

Instructors: Colombano, Montgomery, Simon

Required for Major: Sociology 101, 301-302, 310, 480-481, three courses from among the following: Sociology 208, 212, 305, 306, 308, (Substitutions permitted with approval of the department) and three electives in sociology, social work or criminal justice. Also recommended: Economics 411, 412; History 225, 233, 237; Political Science 102, 245; Psychology 203, 206, 315, 350.

105

Sociology 101. (F, S)

INTRODUCTION TO SOCIOLOGY

D
3 credits

Introduction to the study of American society. Emphasis will be on sociological concepts, theories, and methods for gathering data on social realities.

Sociology 102. (F, S)

SOCIAL PROBLEMS

D
3 credits

Significant social problems of American society in the areas of crime, delinquency, race, ethnicity, mental health, population, the family and community disorganization.

Sociology 203. (F)

INDUSTRIAL SOCIOLOGY

D
3 credits

Analysis of the social organization of work in modern societies, the concept of career, the development of professionalization, the nature of work-satisfaction and the impact of bureaucratization. Occupational subcultures such as law, medicine, public service, the military, and education considered.

Sociology 207. (S)

THE CITY AND SOCIAL CHANGE

D
3 credits

A study of the rate and significance of urbanization in the United States and the world, with particular attention to the housing, planning, and redevelopment movements.

Sociology 208. (F)

POPULATION

D
3 credits

Trends and differentials in fertility, mortality, migration and urbanization, and national increase as these relate to levels of living in the world.

- Sociology 209. (S)** **D**
SOCIOLOGY OF RELIGION 3 credits
 A study of religion as a basic institution and of its relationships with the political, economic, and stratification systems of society and with social change.
- Sociology 210. (F)** **D**
WOMEN AND MEN IN SOCIETY 3 credits
 A cross-cultural examination of the ways in which the social roles of women and men have been structured. Emphasis placed on the changing roles of women and men in contemporary American society.
- Sociology 211. (F, S)** **D**
MARRIAGE AND FAMILY 3 credits
 Study of marriage and the family as social institutions. A consideration of the historical development of the family, variations of family structure in contemporary societies, and current trends in American family patterns.
- Sociology 212. (F, S)** **D**
MINORITY GROUPS 3 credits
 Examination of the racial and ethnic groups that compose American society. Emphasis on the processes involved in social change in intergroup relations.
- Sociology 213. (F)** **D**
CULTURAL ANTHROPOLOGY 3 credits
 A cross-cultural study of the influence of culture in explaining the variations and constants in human behavior in pre-industrial and modern societies.
- Sociology 301-302. (F, S)** 3-6 credits
STATISTICS AND RESEARCH METHODS
 General introduction to the basic concepts and techniques of statistical analysis and research. Both descriptive and inferential statistics included. General survey of research methodology.
- Sociology 305. (F)** **D**
SOCIETY AND THE INDIVIDUAL 3 credits
 The study of the influence of society and culture, as mediated by the social group, on the social, cultural, and personal behavior of the individual. Prerequisite: Sociology 101 or 102, or permission of instructor.
- Sociology 306. (F)** **D**
COMPLEX ORGANIZATIONS 3 credits
 The study of bureaucracies and the process of bureaucratization. Following an introduction to classical and modern organizational theory, emphasis will be placed on both internal bureaucratic dynamics and external relationships complex organizations must negotiate with their environments. The distinction between formal (official) and informal (unofficial) organizational realities will be accentuated throughout the course. Prerequisites: Sociology 101 or 102, or permission of instructor.
- Sociology 308. (S)** **D**
SOCIAL STRATIFICATION 3 credits
 An analysis of social class, status, power, and privilege with emphasis on the United States. The theories of Karl Marx, Max Weber, and Kingsley Davis-Wilbert Moore evaluated and applied to contemporary America. Efforts to create egalitarian societies in selected post-capitalistic countries also examined. Prerequisite: Sociology 101 or 102, or permission of instructor.
- Sociology 309. (S)** **D**
HEALTH AND SOCIETY 3 credits
 A basic survey of how individuals are socialized to think about and how they are treated by those in the health institutions. Such topics as the effects of professionalization, the effects of bureaucratization, and the social psychological aspects of disease and illness will be covered.

Sociology 310. (F, S)
SOCIOLOGICAL THEORY

D
3 credits

A survey of the development of social thought from August Comte to contemporary theorists. An attempt to see the evolution of social theory within the social context of the theorist's milieu. Prerequisite: Sociology 101 or 102, or permission of instructor.

Sociology/Economics/Political Science 320. (F)
INTRODUCTION TO URBAN STUDIES

3 credits

Interdisciplinary analysis of cities and urbanization. Examines comparative cause and effect patterns. Places the American experience in long run, world perspective. Stresses the post-1920 metropolitanization and how resultant urban problems interact with wider social and economic forces. Prerequisites: 6 hours of social science. Identical with Economics 320.

Sociology/Economics/Political Science 321. (S)
SEMINAR IN URBAN STUDIES

3 credits

Analyzes social and economic policy decisions towards urban America since World War II. Urban finance, housing, crime, schooling, transportation and selected other areas examined. Includes evaluation of limits, directions and mix of government and private sectors. Prerequisites: 6 hours of social science. Identical with Economics 321.

Sociology/Economics/Political Science 420-421.
FIELD SEMINAR SEMESTER IN URBAN STUDIES

3-6 credits

See page 52 for course description.

Sociology 330. (F)
THE EDUCATION OF URBAN POPULATIONS

3 credits

Identical with Education 330 and Political Science 330. See page 56.

Sociology 270, 370, 470. (F, S)
SPECIAL TOPICS IN SOCIOLOGY

D
3 credits

Designed to meet current developments in sociological specialties. Topics include deviance, social change, physical anthropology, mental health and social work, criminalistics, sociology of conflict, counseling methods, gerontology. Students should check with the department about whether course meets distribution requirement.

Sociology 480-481. (F, S)
RESEARCH SEMINAR

4-8 credits

Original research in one area of social reality and a study of existing theory and knowledge about this area.

CRIMINAL JUSTICE

Associate Professor: Coffee
Assistant Professor: Homum
Instructor: Colombano

Required for Major: Criminal Justice 221, 222, 385-386, 485-486; Sociology 101, 301-302, 310; three courses from among the following: Sociology 208, 212, 305, 306, 308. (Substitutions permitted with approval of the department.) Also recommended as appropriate to career objectives: Accounting 101, 102; Computer Science 151, 153; Management 201, 202, 306; Political Science 102, 240, 241, 243, 247; Psychology 101, 206, 306, 315, 364, 406, 408; Social Work 361-362, 363-364.

Criminal Justice 221. (F, S)
CRIME AND ITS CAUSES

D
3 credits

A study of the sociological and social psychological foundations of crime and delinquency. Topics include: the definition and meaning of crime and delinquency, the etiology of crime and delinquency, the history and development of the criminal law, criminal behavior systems.

Criminal Justice 222. (S)**D****INTRODUCTION TO CRIMINAL JUSTICE**

3 credits

A consideration of law enforcement, the administration of justice and the punishment and treatment of criminals. A survey of the sociological and social psychological processes affecting the criminal justice system. Topics include: the police function, crime prevention programs, the prosecutorial and defense functions, judicial administration and decision-making, institutional and community-based corrections, probation and parole.

Criminal Justice 223. (F)**D****CRIMINAL LAW**

3 credits

A study of the history and development of Anglo-American criminal law and an examination of contemporary constitutional issues and the Pennsylvania Penal Code.

Criminal Justice 224. (S)**D****CRIMINAL INVESTIGATION**

3 credits

Designed to provide the student with the fundamental principles, concepts, and procedures of investigation. History and development of investigative practices, specific methods of investigation, including both laboratory and forensic approaches as well as psychological techniques, and critical examination of the role of the criminal investigator as it interfaces with other elements of the criminal justice system.

Criminal Justice 385-386. (F, S)**D****SEMINAR IN CRIMINAL JUSTICE ADMINISTRATION**

3-6 credits

The theory and practice of law enforcement, judicial, and correctional agencies are critically examined through class discussions, individual and group projects, visits to criminal justice agencies and participation by guest lecturers

Criminal Justice 485-486. (F, S)**D****FIELD SEMINAR IN CRIMINAL JUSTICE**

6-12 credits

Field placement in law enforcement, judicial and correctional agencies, evaluative seminar sessions with instructors, and completion of a field-oriented project. Students may elect to take both courses in one semester (four days per week, six hours per day in the field and two hours of seminar session per week). Alternatively, students may elect to take the courses sequentially over two semesters (two days per week, six hours per day in the field and one seminar session per week). Students are placed in criminal justice agencies related to their interests and receive individual supervision by a field supervisor employed by the agency and a faculty liaison person. Prerequisite: Criminal Justice 385-386.

SOCIAL WORK*Professor: J. F. Connors**Assistant Professor: J. T. Connors**Instructors: Montgomery, Simon**Lecturer: Brunn*

Required for Major: Social Work 202, 361-362, 363-364, 461-462, 463-464; Psychology 101, 203, 206; Sociology 101, 301-302, 310; three courses from among the following: Sociology 208, 212, 305, 306, 308 (Substitutions permitted with approval of the department). Also recommended: Biology 155, 156; Criminal Justice 221; Economics 101, 102, 203; English 302; History 116, 233, 237, 358; Political Science 102, 243, 247; Psychology 201, 315, 325; Spanish 101, 102, Sociology 211, 320, 321.

Social Work 202. (F, S)**D****INTRODUCTION TO SOCIAL WELFARE**

3 credits

A survey of social work and the social welfare system comprising structured observation, rationale for social welfare provision, an overview of the fields of practice and the basic methods for approaching the delivery of services. The scope, intention, and background of social welfare explored. Opportunity to test interest in social work through 40-hour supervised volunteer experience in a social welfare agency.

Social Work 361. (F) 3 credits
METHODOLOGIES IN SOCIAL WORK I

The system of principles, practices and procedures used in social work. Understanding the individual in his life situation, inclusive of the intrafamilial and sociocultural context of his interaction with institutions and systems. Identification of important areas of human need and of social problems through discussion of specific cases. Students spend one day weekly in social welfare agencies for educationally directed field observation.

Social Work 362. (S) 3 credits
METHODOLOGIES IN SOCIAL WORK II

The development of knowledge about casework, group work and community organization methods. A range of appropriate treatment techniques are studied as preparation for practice with individuals, groups and other systems. Laboratory assignments in the community, readings and class discussions are combined to explore how social welfare agencies function. Students spend one day weekly in social welfare agencies for an educationally directed field observation.

Social Work 363. (F) D
SOCIAL WELFARE POLICY I 3 credits

Social, economic, and political forces and processes influencing public policy formulation and implementation. Traces the evolution of contemporary welfare policies and programs within the context of American social history and culture.

Social Work 364. (F) D
SOCIAL WELFARE POLICY II 3 credits

A critical explanation and evaluation of current social welfare policy trends and programs. Discussion of alternatives and strategies for change in selected topics from health care, welfare, education, child care, child welfare, geriatrics, personal social services, and family policy.

Social Work 461-462. (F, S) 3-6 credits
SEMINAR IN SOCIAL WORK I AND II

Builds upon the knowledge, attitudes and skills developed in the methodologies course. Emphasis on central issues in social work methodologies. Both the professional literature and students' field experience are used to analyze the work of professional social workers. Prerequisite: Senior in the social work program or consent of the instructor. Concurrent with Social Work 463-464.

Social Work 463-464. (F, S) 6-12 credits
FIELD INSTRUCTION I AND II

Provides instruction and practice in social welfare and related agencies providing services in casework, group work and community organization. Structured agency supervision provides opportunity for students to develop skills and recognize the effect their own intervention has upon clients' making effective use of a service. Students spend two full days or fourteen hours per week in field instruction. Prerequisite: Senior in the social work program or consent of the instructor. Concurrent with Social Work 461-462.

Social Work 465. (S) 3 credits
PROFESSIONAL CONSIDERATIONS IN SOCIAL WORK

Questions of values and ethics underlying professional social work practice are explored. Basic social work assumptions and issues are identified and evaluated from philosophical, historical, political, and sociological perspectives.

business administration



The School of Business Administration offers a four-year undergraduate program for men and women leading to the Bachelor of Science degree. The current program represents several years of review of the educational needs of students entering the business world and graduate schools and the needs of the College's urban environment. Specific consideration has been given to the students' educational background and age, their experience, their expectations and goals, as well as the urban community—its structure, interests, and attitudes. The program prepares students for managerial responsibilities and provides an enduring base for personal development.

Course requirements and electives are structured to provide: (1) a solid foundation in the arts and sciences as background for professional study in business administration; (2) a business core consisting of study in the several areas of business administration and in analytical methods and techniques; and (3) an opportunity to concentrate in depth in a professional area as a basis for future career development. The general education studies provide the student with an understanding of himself, the humanistic and philosophic aspects of man, Christian thought, and the social, mathematical, and computing sciences relevant to business practice; the business core and professional studies provide a broad understanding of business administration and prepare students for a career or for graduate education.

DEGREE PROGRAM

The program leading to a Bachelor of Science degree in Business Administration consists of 120 credits, about half of which may be taken in business and economics. The general education and professional studies are pursued simultaneously by the student throughout the four years of undergraduate study. In the junior year, a student begins to specialize in a professional option or "major." Professional options are available in accounting, finance, management, personnel and labor relations, marketing, and quantitative analysis. Special options may be planned to meet individual needs. A cooperative program with St. Joseph's College provides students with the opportunity to become certified to teach business courses at the secondary level.

PREPARATION FOR TEACHING

Students who wish to teach courses in business administration at the secondary level may receive state certification at the secondary level by participating in a cooperative program involving La Salle and St. Joseph's College. Under this program, the student completes his General Education and Distribution requirements at La Salle, along with course work in either accounting or marketing. Education courses are pursued both at La Salle and St. Joseph's. The student receives his degree from La Salle and his certification from St. Joseph's. Arrangements for program may be completed in consultation with the dean.

CURRICULUM

The curriculum for business administration students has five parts:

1. General Education—7 courses (21 credits)
2. Distribution Requirement—9 courses (27 credits)
3. Business Core—10 courses (30 credits)
4. Professional Studies—4 courses (12 credits)¹
5. Electives—10 courses (30 credits)²

General Education

These studies are aimed at providing an enduring base for personal development and an awareness of moral values and social responsibility. Normally these courses will be completed by the end of the sophomore year. They include:

English Composition	1 semester	(May be waived if writing competence is established.)
Literature	2 semesters	(English or foreign literature in English.)
Philosophy	2 semesters	
Religion	2 semesters	

Distribution Requirement

This requirement provides a measure of balance in the liberal arts and sciences, the major field, while at the same time permitting an element of flexibility so that each student may tailor his program to some degree to fit his interests and needs. The Distribution Requirement is normally completed by the end of junior year. *N.B.*: certain courses within Areas II and IV must be selected by all students in the School of Business Administration. General Education courses may not be taken to fulfill Distribution Requirements.

¹The Accounting Option requires 8 courses (24 credits) beyond the Business Core.

²The Accounting Option has 6 courses (18 credits) as electives. Two courses (6 credits) in business and economics and 4 courses (12 credits) in arts and sciences are recommended as electives. For other options, 4 courses (12 credits) in business and economics and 6 courses (18 credits) in arts and sciences are recommended as electives.

Business administration students may choose two courses from two of the three areas: Area I, III, or V.

<i>Area I</i>	<i>Area III</i>	<i>Area V</i>
English	Religion	Biology
History	Philosophy	Chemistry
	Fine Arts	Geology
	(Music or Art)	Physics
<i>Area II</i>	<i>Area IV</i>	
Foreign Languages	Economics ²	
Mathematics ¹	Political Science	
	Sociology	
	Psychology	

Business Core

Course work consists of study in the several areas of business practice and in analytical methods and techniques. This foundation is intended to develop a broad understanding of business problems. The following courses constitute the core:

Functional Activities: Accounting 101, 102; Finance 201, 202; Management 202; Marketing 201; Law 201.

Analytical Techniques: Quantitative Analysis 213, Economics 302, Management 201.

Professional Studies

These courses provide an intensive learning experience in one facet of business practice and serve as a basis for future career development. Professional options are offered in:

Accounting	Marketing	
Finance	Personnel and Labor Relations	
Management	Quantitative Analysis	Special Options

The professional option consists of 12 credits, normally in a functional area beyond the courses required in the business core. An exception to the 12 credit requirement is the accounting option, for which a set of course requirements has been established as necessary preparation for the Certified Public Accounting examination in Pennsylvania.

You may choose your professional option when you apply for admission or at some time during your first two years of college. If you wish to choose a special option, you must obtain the dean's approval of your program.

Free Electives

A student may choose to concentrate his free electives in a particular field or may use these electives to diversify his background or broaden his interests. To achieve a balance between liberal arts and professional studies, the school recommends that a student take no more than 12 credits as electives in business administration or economics.

¹Business students must take Mathematics 111, 112 or two advanced courses. They must also take Computer Science 151, or equivalent.

²Economics 101-102 is required of business students.

MODEL ROSTER FOR PROFESSIONAL OPTION IN ACCOUNTING

FRESHMAN YEAR

Fall	Spring
Acc. 101	Acc. 102
Eco. 101	Eco. 102
Math. 111	Math. 112
Eng. 101	Gen. Ed. Lit.
Gen. Ed. Rel.	Gen. Ed. Phil. A

JUNIOR YEAR

Fall	Spring
Acc. 303 (or 304)	Acc. 304 (or 303)
Law 201	Mgt. 202
Fin. 202	Mktg. 201
Eco. 302	C. Sc. 151
Dist. Req. — Areas I, III, or V	Dist. Req. — Areas I, III, or V

SOPHOMORE YEAR

Acc. 201	Acc. 202
Fin. 201	Quan. Anal. 213
Mgt. 201	Gen. Ed. Lit.
Dist. Req. — Areas I, III, or V	Dist. Req. — Areas I, III, or V
Gen. Ed. Rel.	Gen. Ed. Phil. B

SENIOR YEAR

Acc. 405	Acc. 406
Acc. 407 (or 480)	Acc. 480 (or 407)
Elective	Elective
Elective	Elective
Elective	Elective

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MODEL ROSTER FOR PROFESSIONAL OPTIONS IN FINANCE, PERSONNEL AND LABOR RELATIONS, MANAGEMENT, MARKETING, AND QUANTITATIVE ANALYSIS

FRESHMAN YEAR

Fall	Spring
Acc. 101	Acc. 102
Eco. 101	Eco. 102
Math 111	Math 112
Eng. 101	Gen. Ed. Lit.
Gen. Ed. Phil.	Gen. Ed. Rel.

JUNIOR YEAR

Fall	Spring
Law 201	Mgt. 202
or Mktg. 201	or Fin. 202
Major Course	Major Course
Eco. 302	C. Sc. 151
Dist. Req. — Areas I, III, or V	Dist. Req. — Areas I, III, or V
Arts & Sci. Elect.	Arts & Sci. Elect.

SOPHOMORE YEAR

Fin. 201	Mgt. 201
Quan. Anal. 213	Gen. Ed. Lit.
Gen. Ed. Phil.	Gen. Ed. Rel.
Dist. Req. — Areas I, III, or V	Dist. Req. — Areas I, III, or V
Law 201	Mgt. 202
or Mktg. 201	or Fin. 202

SENIOR YEAR

Major Course	Major Course
Elective	Elective
Elective	Elective
Elective	Elective
Elective	Elective

to the balance sheet and income statement. Structure and meaning of accounts and peripheral statements such as application of funds and breakeven analysis. Prerequisite: Accounting, 102.

Accounting 312. (F, S)

COST ACCOUNTING

3 credits

Similar to Accounting 303, but intended for students not majoring in accounting. Prerequisite: Accounting 102.

Accounting 313. (S)

ADVANCED COST ACCOUNTING

3 credits

Economic, industrial, and managerial aspects of cost accounting with emphasis on flexible budget as basis for cost control; analysis of variance and graphic charts. Study of estimated costs, standard costs, and distribution costs. Prerequisite: Accounting 303.

Accounting 405. (F)

ADVANCED ACCOUNTING THEORY AND PROBLEMS I

3 credits

A study of home office and branch accounting, mergers, acquisitions and preparation of consolidated financial statements, foreign operations. Prerequisite: Accounting 202.

Accounting 406. (S)

ADVANCED ACCOUNTING THEORY AND PROBLEMS II

3 credits

A study of special topics in accounting theory including partnerships, installment sales, estate and trust, and insolvency in connection with realization and liquidation. Prerequisite: Accounting 405.

Accounting 407. (F, S)

INCOME TAXES

3 credits

Training in application of basic principles to the solution of tax problems; individual income tax returns, inclusions, exclusions, and capital gain or loss applicable thereto; pay-as-you-go tax collection system; partnership, corporation, and fiduciary income tax returns; social security, estate, and gift taxes.

Accounting 450. (F, S, Summer)

COOPERATIVE EDUCATION

3 credits

Consult with department chairman. Prerequisite: Accounting 202.

Accounting 480. (F, S)

ACCOUNTING SEMINAR

3 credits

Research in selected topics of accounting theory. Prerequisite: senior standing.

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BUSINESS LAW

(See Law, page 119.)

FINANCE

JOSHUA BUCH, Ph.D., *Chairman*

Associate Professors: Buch, Kelly, Woods

Assistant Professors: Barenbaum, Monahan, Williams

Instructors: Liem, Myers, Olson

Required for Professional Option in Finance: 4 courses

- Four courses from among the following: Finance 301, 302, 304, 401, 403, 404, 480

Finance 201. (F, S)

PRINCIPLES OF FINANCE

3 credits

An investigation of the nature and concepts of money and credit; the financial structure of the United States and the sources of credit; effects of Federal Reserve and U.S. Treasury actions on financial institutions.

Finance 202. (F, S)**CORPORATION FINANCE**

3 credits

An introduction to the essentials of financial management with emphasis on working capital management, capital budgeting, capital structure, and risk analysis. Prerequisites: Accounting 102, Mathematics 111, Quantitative Analysis 213.

Finance 301. (F, S)**INTRODUCTION TO INVESTMENTS AND SECURITIES MARKETS**

3 credits

A study of the stock market, its trading operations and regulations. Development of investments policies for personal programs as compared to institutional uses of funds. Prerequisite: Finance 201.

Finance 302. (S)**INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT**

3 credits

Development of fundamental techniques of security analysis in order to determine investment characteristics and evaluate existing holdings of securities. Prerequisites: Finance 202, 301.

Finance 304. (F, S)**ADVANCED CORPORATION FINANCE**

3 credits

Case studies and critical analysis of current literature in specific areas of financial management. Prerequisites: Finance 202, Quantitative Analysis 213.

Finance 401. (F)**FINANCIAL ADMINISTRATION**

3 credits

Analysis of policies, practices, and operating results of financial institutions and the money market. Prerequisite: Finance 201.

Finance 403. (F, S)**INTERNATIONAL COMMERCE**

3 credits

Identical with Marketing 403.

Finance 404. (S)**PUBLIC FINANCE**

3 credits

An analysis of the revenue of expenditure activities of government with particular emphasis on the rationale of this government activity, the method of financing, and the effects of fiscal policy on allocation, distribution, efficiency, equity, and stability in the economy. Same as Economics 404. Prerequisites: Economics 101-102, Finance 201.

Finance 480. (S)**SEMINAR IN FINANCE**

3 credits

Selected topics in the area of finance studied in depth under the direction of staff. Prerequisites: Finance 302 or 304 and senior standing.

INFORMATION SYSTEMS

Visiting Professor: diRoccaferrera

Information Systems courses may be taken as electives. The management department coordinates these courses.

Information Systems 301. (F)**INFORMATION SYSTEMS DESIGN**

3 credits

Organizational levels of decision making, long range planning, and routine control. Sources of data, validity, reliability, and accuracy considerations of data. Collection and processing difficulties, data transformation, and introduced errors. Considerations of costs of processing, time of processing, hardware and software capacities. Value of information, generation of alternative information system designs, choice among the alternatives (selection and evaluation). Prerequisite: Computer Science 151.

Information Systems 401. (S)
SYSTEMS DEVELOPMENT PROJECT

3 credits

Developing one complete routine information system for a hypothetical or real organization; going through the use of available modules, figuring out flexibility of data base and the information system for one time decisions. Development of alternate designs and choice. Exposure to real world data problems. Prerequisite: Information Systems 301.

INSURANCE

Lecturer: Huntoon

Insurance courses may be taken as electives. The department of finance coordinates the courses.

Insurance 301. (F)
INSURANCE PRINCIPLES

3 credits

A survey of the underlying principles, practices, and legal aspects of life, fire, marine, fidelity and corporate surety, employer's liability, title, and credit insurance. Prerequisite: junior standing.

Insurance 302. (S)
LIFE INSURANCE

3 credits

Analysis of life insurance contracts; fundamental legal concept, rate making, construction of mortality tables and reserves; insured pension funds; tax estate planning. Prerequisite: junior standing.

LAW

Associate Professor: Domineske
Lecturers: Gembala, Maratea

Law courses may be taken as electives. Law 201 is required of all business administration students. The department of finance coordinates the courses.

Law 201. (F, S)
LAW OF CONTRACTS

3 credits

Introduces the students to the more common rules and principles governing business transactions; the rights and duties of individuals resulting from contractual and quasi-contractual obligations.

Law 202. (F, S)
LEGAL ENVIRONMENT OF BUSINESS

3 credits

A study of the politico-legal framework within which business operates. The nature, formation, and application of law to business; the historical development and present constraints upon decision making; the interface of business and the whole of its legal settings. Legal procedure, judicial, legislative, and administrative law considered in perspective.

Law 301. (F)
LAW OF AGENCY, PARTNERSHIPS, AND CORPORATIONS

3 credits

Common and statute laws relating to the creation, operation, and termination of agencies, partnerships, and corporations. Emphasis on the Common Law of Agency, the Uniform Partnership Act, and the Business Corporation Law of Pennsylvania.

Law 302. (S)
LAW OF SALES AND SALES FINANCING

3 credits

Common and statute laws relating to the sale, purchase, transfer, and bailment of personal property. Emphasis on the Uniform Commercial Code relative to sales, sales financing, and secured transactions. Includes the legal relationship of bailor and bailee, shippers, and common carriers.

Law 401. (F, S)
LAW OF REAL ESTATE

3 credits

Common and statute law of court process which the real estate salesman and broker encounter daily, including the legal principles applicable to the listing contract, the agreement of sale, mortgages, deeds, leases, adverse possession, easements, licenses, proving and recording title.

Law 402. (F, S)
LAW OF NEGOTIABLE INSTRUMENTS

3 credits

Application of the common law of the Uniform Commercial Code to checks, promissory notes, and bills of exchange. The use of commercial paper in security transactions and in the creation of credit. The laws of principal and surety, and insurer and insured as related to the use of commercial paper.

MANAGEMENT

PRAFULLA N. JOGLEKAR, Ph.D. *Chairman*
Professors: Goldner, Halpin
Associate Professors: Joglekar, MacLeod, Troxell
Assistant Professors: Korzeniowski, Seltzer
Instructors: Berger, Drazin, Kazanjian, Rappaport
Visiting Professor: diRoccalertera

Required for Professional Option in Management: 4 courses

Requirements for each of the several available concentrations are listed below. Students whose goals are not met by one of these concentrations may design an individualized program in consultation with the chairman. Some quantitative analysis courses or information systems courses may be substituted for management courses with the permission of the chairman.

Concentrations:

- Operations Management: Management 304 or 305; 401 or 404 or 480; Quantitative Analysis 302 or Information Systems 301; one additional management course.
- Organizational Behavior: Choose courses from each group:

<i>Group 1</i> (choose 3)	<i>Group 2</i> (choose 1)
Management 303, 306, 307, 350	Management 401, 404, 480, 481
Relations 302	
- Management Information Systems: Information Systems 301, 401; Quantitative Analysis 301; Computer Science 153.
- Management of Public Systems: Information Systems 301; Management 305; Quantitative Analysis 214, 301. Two additional courses in arts and sciences from among the following: Economics 404, Computer Science 254, Political Science 247, Economics/Sociology 320 and 321, Sociology 203, 207, Psychology 364, Management 481.

Management 201. (F, S)
ORGANIZATION AND MANAGEMENT OF HUMAN RESOURCES

3 credits

Interpersonal and intergroup perception, communication, individual motives, organizational structure, leadership and management styles and their influences on human behavior, considerations of costs, efficiency, morale, effectiveness, traditional and modern organization theories, centralization vs. decentralization. Experiential approach supplemented with cases and readings.

Management 202. (F, S)
INTRODUCTION TO OPERATIONS MANAGEMENT

3 credits

Plant layout, plant location, work methods, inventory control, scheduling, productivity measurement, incentive systems, interrelationships with other departments. Problems from various serv-

ice and manufacturing industries, including quantitative appreciation of techniques like EOQ, expected values. Prerequisites: Mathematics 111, 112; Quantitative Analysis 213.

Management 303. (F)

CREATIVE THINKING AND DECISION MAKING

3 credits

Principles and techniques of how to think creatively; creative exercises. Complex cases for realistic decision making analyzed and evaluated in writing. Comprehensive reports required. Prerequisites: Management 201, 202, Business Core.

Management 304. (F)

PRODUCTION PLANNING AND CONTROL

3 credits

Inventory control systems, PERT/TIME, PERT/COST, design of production control system, product mix problems, transportation problems and scheduling, forecasting and planning, automation and related problems. Applications to manufacturing industries. Prerequisite: Management 202. Not to be taken if Management 305 is taken.

Management 305. (S)

PLANNING AND CONTROL IN SERVICE INDUSTRIES

3 credits

Selected topics in planning and control, such as inventory control systems, PERT, scheduling, forecasting, queuing theory, system design. Applications in several service institutions like hospitals, airlines, banks, post offices, schools, telephone companies, utilities, etc. Prerequisite: Management 202. Not to be taken if Management 304 is taken.

Management 306. (S)

ADMINISTRATIVE PLANNING AND CONTROL

3 credits

An advanced course concerned with general management concepts of planning and control in formal organizations. Particular emphasis on the operational planning process. Prerequisite: Management 201.

Management 307. (F, S)

ORGANIZATIONAL ANALYSIS

3 credits

Emphasizes the empirical development of a multidimensional program integrating selection, training and development, motivation, and task and organization design. Assessment techniques of major firms are examined, bridging the gap between theory and practice. Prerequisite: Management 201.

Management 350. (F, S)

EFFECTIVE COMMUNICATION

3 credits

An examination of the process of communication in personal and organizational settings. Focus on the individual's styles and patterns of communicating, verbal and nonverbal modes, self-image, listening perception, and barriers to effective communication. Emphasizes building communication skills through active participation in experiences and discussions in class. Limited enrollment. Course generally equivalent with Psychology 350. See page 100. Prerequisite: permission of instructor.

Management 401. (F)

BUSINESS POLICY

3 credits

Intended as a capstone course in business administration. Integration of backgrounds acquired from accounting, finance, production, personnel, and marketing, strategic planning and implementation; analysis and discussion of actual or simulated situations. Prerequisite: senior standing.

Management 404. (F, S)

SMALL BUSINESS CONSULTING

3 credits

The actual art and practice of managing a small enterprise. Concepts and methods for decision making and being competitive. Actual cases with live situations and outside speakers from all areas—business, government, and organized labor—impinging on the small entrepreneur today. Prerequisites: Management 201, 202, Business Core.

Management 450. (F, S, Summer)**COOPERATIVE EDUCATION**

3 credits

A paid, managerial job (minimum duration: 16-week full-time equivalent) in an area firm or government agency. Appropriate job related learning assignments under faculty supervision. Consult department chairman.

Management 480.**SEMINAR IN MANAGEMENT**

3 credits

Emphasis on modern, positive management concepts and practices. Class discussion and analysis of best-managed companies in the U.S. and overseas. Field trips to representative companies. Comprehensive reports required. Prerequisite: senior standing.

Management 481.**MULTINATIONAL MANAGEMENT**

3 credits

Study of the conduct of business in foreign countries from a managerial point of view. Topics pertaining to the multinational industrial and commercial activities of American enterprises presented and discussed. The United States' involvements and relations with foreign organizations such as OPEC, OCED, and ECM analyzed. United Nations regulations, commitments, and protections examined. Prerequisite: Business Core.

MARKETING

L. THOMAS REIFSTECK, M.B.A., *Chairman*

Associate Professors: McCloskey, Reifsteck, Swoyer

Instructors: Dehner, Thomas

Lecturers: Eisenberg, Markowitz

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Required for Professional Option in Marketing: 4 courses

- Marketing 301, 302, 401, 402
- Concentration in Logistics of Marketing: Marketing 301, 303, 304, 404, 405

Marketing 201. (F, S)**PRINCIPLES OF MARKETING**

3 credits

Principles and factors relating to the marketing functions in the American economy. The nature, significance and functions of marketing; consumer motivation; behavior and buying problems; wholesaling and retailing of consumer goods; marketing industrial goods and raw materials; market research and merchandise development; buying, selling, price policies and practices; channels of distribution; and governmental relationships to marketing.

Marketing 301. (F)**PERSONAL SELLING**

3 credits

The importance and practice of individual selling in the economy. Sales personality, the phases of a sales presentation, types of buyers, and ethics in salesmanship. Prerequisite: Marketing 201.

Marketing 302. (S)**ADVERTISING**

3 credits

Economic and social aspects of advertising, including the important methods and techniques of research which form the basis of any advertisement or advertising campaign; a practical treatment of copy, layout and media; effectiveness of advertising, advertising departments and the advertising agency. Prerequisite: Marketing 201.

Marketing 303. (S)**SALES ADMINISTRATION**

3 credits

The activities of a sales administrator in directing and controlling a sales force; recruiting, selecting, training, compensating, motivating, and supervising salesmen; establishment of sales territories, quotas, and budgets. Prerequisites: Marketing 201 and junior standing.

Marketing 304. (F)**INDUSTRIAL MARKETING**

3 credits

Products, services, and administration related to industrial marketing of capital equipment, technology, and commodity items as well as systems. Planning (research sources, analysis, projection) and administration (advertising, promotion, audiences, result measurement), and case study supplemented by conventional lecture and discussion. Prerequisite: Marketing 201.

Marketing 401. (F)**MARKETING RESEARCH**

3 credits

The use of scientific method in the solution of specific marketing problems and in the conduct of general market research studies: methods of marketing research, gathering data, tabulation and analysis, interpretation of results, and report presentation. Prerequisites: Quantitative Analysis 213, Marketing 201, Mathematics 112.

Marketing 402. (S)**MARKETING MANAGEMENT**

3 credits

Integrates all other marketing courses. Study of actual business cases employing managerial approach to marketing; emphasis on decision making and the strategies used by the marketing manager as he adapts his marketing mix to rapidly changing conditions.

Marketing 403. (F)**INTERNATIONAL COMMERCE**

3 credits

Factors conditioning the feasibility of direct private foreign investment, recent trends, and managerial problems in operating abroad; case studies of experiences of U.S. firms having foreign operations. Identical with Finance 403. Prerequisites: Marketing 201, Finance 201.

Marketing 404.**MARKETING MIDDLEMEN AND CHANNELS**

3 credits

In-depth study of various types of middlemen, distributors and agents, focusing on their contribution to the distribution channel. Integrated wholesaling and coops and understanding of the functions performed and services offered.

Marketing 405.**PHYSICAL DISTRIBUTION**

3 credits

The marketing approach to physical distribution focusing on transportation, warehousing, channels, physical distribution systems, geography, material handling and planning and their effect on successful marketing.

SPECIAL TOPICS**Marketing 271 (F, S)****CONSUMER BEHAVIOR**

3 credits

A study of the consumer to allow the marketing manager to develop better marketing strategies. The course looks at the complex nature of the human being in terms of the social, cultural, psychological, and economic dimensions of man as they apply to this decision making and acquisitive nature.

Marketing 272 (F, S)**RETAILING**

3 credits

A study of the managerial aspects of the retail institution as part of the total marketing system. The course concentrates on the environmental forces impinging on the system, the role of retailing and the management of retail institutions.

PERSONNEL AND LABOR RELATIONS

Professor: Halpin

Assistant Professor: Korzenowski

The department of management coordinates the courses in this area.

Required for Professional Option in Personnel and Labor Relations: 4 courses

- Relations 301, 302, 401
- Relations 303 or 304

Relations 301. (F, S)

LABOR PROBLEMS IN AMERICA

3 credits

Sources of the union movement, its history, structure, and functions. Development of economic, political, and social power; problems involved in the use of this power; management rights and management reaction to unions. Outside readings and term paper required.

Relations 302. (F, S)

PERSONNEL ADMINISTRATION

3 credits

Designed to train students to analyze existing programs, to adapt procedures and to develop original methods which will insure efficient personnel administration. Job analysis; policy determination and administration; selection, promotion, transfer, and E.E.O.; health, safety, and OSHA. Outside readings and term paper required.

Relations 303. (F)

LABOR LEGISLATION

3 credits

Analysis of the important federal and state statutes affecting labor-management relations, including the Railway Labor Act of 1926, the Norris-LaGuardia Act, the Taft-Hartley Act, the Landrum-Griffin Act, Executive order 11,491 and Pennsylvania's Public Employee Relations Act. Prerequisite: Relations 301. Outside readings and legal research problems required.

Relations 304. (S)

WAGE, SALARY, AND BENEFIT ADMINISTRATION

3 credits

Study of compensation policies and practices. Emphasis on job evaluation, rate ranges, incentive plans, and benefit programs. Federal and state laws examined. Field work and legislative research report required.

Relations 401. (S)

COLLECTIVE BARGAINING

3 credits

External and internal factors influencing the establishment of trade agreement and application of these provisions to day-to-day employer-employee problems through an analysis of authentic cases drawn from industry. Prerequisites: Relations 301 or 302. Outside readings, research problems, and student reports required.

Relations 450.

COOPERATIVE EDUCATION

Identical to Management 450.

QUANTITATIVE ANALYSIS

Associate Professor: Troxell

Instructor: Rappaport

The department of management coordinates the courses in this area.

Required for Professional Option in Quantitative Analysis: 4 courses

- Quantitative Analysis 301
- Three of the following: Quantitative Analysis 214, 302, 303, 304, 470

Quantitative Analysis 213. (F, S)**INTRODUCTION TO BUSINESS STATISTICS**

3 credits

Theory, methods, and applications of descriptive and inferential statistical techniques for management problem solving. Prerequisite: sophomore standing.

Quantitative Analysis 214. (F, S)**INTERMEDIATE STATISTICS**

3 credits

Statistical inference; tests of significance; chi square, analysis of variance; multiple and partial regression and correlation procedures. Other methods of analyzing data. Prerequisite: Quantitative Analysis 213.

Quantitative Analysis 301. (F)**QUANTITATIVE TECHNIQUES IN DECISION MAKING**

3 credits

Decision theory, value of information, sensitivity analysis, dynamic programming and other methods of decision making. Prerequisites: Quantitative Analysis 213, Management 202.

Quantitative Analysis 302. (S)**STATISTICAL QUALITY ASSURANCE**

3 credits

Control charts for variable and attributes, acceptance sampling plans; costs of quality. Prerequisite: Quantitative Analysis 213.

Quantitative Analysis 303. (S)**TOPICS IN APPLICATION OF STATISTICS**

3 credits

Selected topics from nonparametric statistics and sample survey methods, Bayesian statistics, design of experiments, and other applications. Prerequisite: Quantitative Analysis 214.

Quantitative Analysis 304. (S)**OPERATIONS RESEARCH**

3 credits

Simulation, linear programming, game theory, scheduling algorithms. Use of computer research methods. Prerequisite: Quantitative Analysis 301.

Quantitative Analysis 470.**TOPICS IN OPERATIONS RESEARCH**

3 credits

Selected topics from simulation, dynamic programming and inventory models, applications of stochastic processes. Prerequisites: senior standing and consent of instructor.

SPECIAL OPTIONS

The Special Option consists of a suitable combination of four advanced courses in the School of Business Administration or in other departments of the College. The Special Option is intended for those who elect a broad approach to their undergraduate education, for students who may have a professional objective for which the available professional options do not offer appropriate preparation, and for students who intend to enter graduate school and may wish to prepare themselves for advanced education through a special program of courses. For a Special Option program, the proposed program is submitted to the Office of the Dean of the School of Business Administration for approval.

directory



Brother Patrick Ellis, President

college administration

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|-----------------------------|-------------------------------------|
| 15 B-D Lounge | 28 Windsor House |
| 16 St. Cassian Hall | Alumni Office |
| 17 St. Jerome Hall | Development Office |
| 18 St. Bernard's Hall | 29 Building Block |
| 19 St. Denis Hall | Day Care Center (2103 Clarkson St.) |
| 20 C-J Lounge | 30 Art Studio (2105 Clarkson St.) |
| 21 Residents' Mail Room | 31 Print Studio (2107 Clarkson St.) |
| 22 La Salle Hall Apartments | 32 Special Activities |
| Security Office | (Travel Program) |
| 23 St. Edward Hall | 33 Hayman Hall |
| 24 E-F Lounge | Athletic Facilities Building |
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LA SALLE COLLEGE

CALENDAR

1980-1981

Fall Semester

August 19	Final date to complete registration by mail
August 26 to 28	On-campus registration—9:00 A.M. to Noon
September 1	Residence Halls open for freshmen and transfer students
September 2	Residence Halls open for other returning students
September 3	Beginning of classes
September 9	Last day for change of roster and late registration
October 19	Academic Convocation
October 27	Mid-semester holiday
October 29	Mid-semester grades due
November 5	Last day for withdrawal from courses
November 27-28	Thanksgiving holidays
December 11	Classes end for fall semester
December 12-18	Final examinations

Spring Semester

January 13-14	On-campus registration—9:00 A.M. to Noon
January 18	Residence Halls open
January 19	Beginning of classes
January 23	Last day for change of roster or removal of "I" grades
March 9-13	Mid-semester holiday
March 17	Mid-semester grades due
March 24	Last day for withdrawal from courses
April 17	Easter recess begins
April 21	Classes resume at 8:30 A.M.
May 1	Classes end for spring semester
May 4-8	Final examinations
May 16	Commencement—3:00 P.M.



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